

8	27364	92836	69428	61268	74982	46498	32764	31276
86	40932	70987	32123	49817	26346	81287	65491	87364
721	75654	55656	12737	72727	72727	91918	63473	67867
723	87629	37677	32612	53498	71296	28756	18276	98716
269	76329	74698	76857	98670	27601	56701	57601	73648
711	87364	87265	96710	27630	12673	84769	28743	98127
78	63298	75698	27465	87326	49876	28376	81273	98615
7	87432	74328	78674	29867	32867	67867	86786	43286
7	68768	68763	34234	34238	68768	62342	48273	48768
26	98432	32432	86743	43286	43286	43286	43286	43286
243	86743	86743	39867	32867	86743	43286	43286	43243
8	86743	86743	86743	86743	86743	86743	86743	86743
92	98798	98754	98754	98754	98754	29867	67543	67986
6	87698	69876	87698	69876	87612	12341	34867	86798
7	43298	65656	56756	56123	32143	14321	32143	14321
7	58765	58765	58765	58765	58765	58765	58765	58765

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #339, December 2025

Editor: Ary Boender email: udxf@udxf.nl

Numbers & Oddities <https://www.numbersoddities.nl>

"Numbers & Oddities" a.k.a. the "Spooks Newsletter" is a newsletter for the members of the Utility DXers Forum (UDXF) and everyone else who is interested in Numbers Stations.

"Numbers & Oddities" covers the fascinating world of Numbers Stations and other odd radio signals on shortwave.

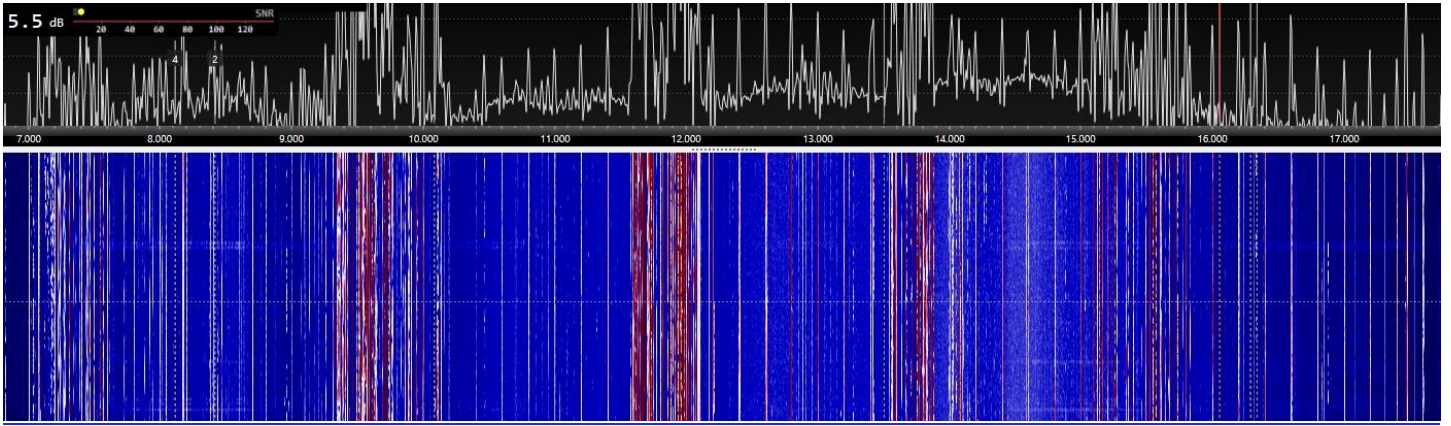


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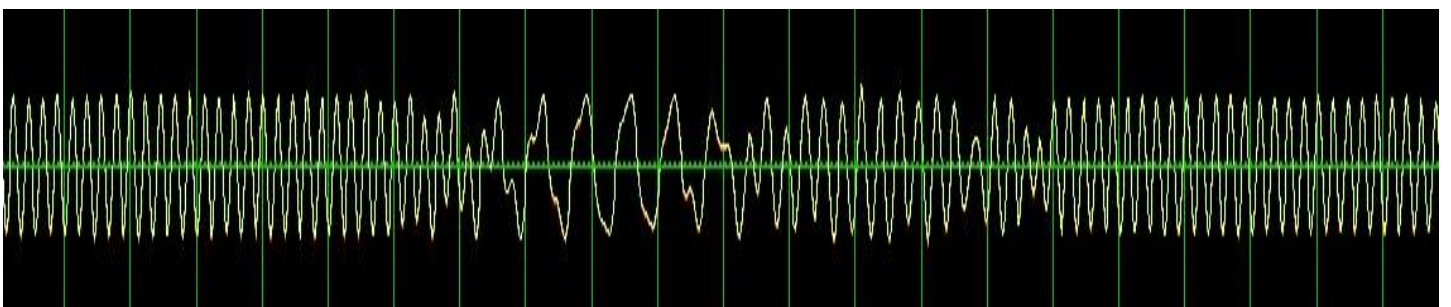


Numbers and Oddities

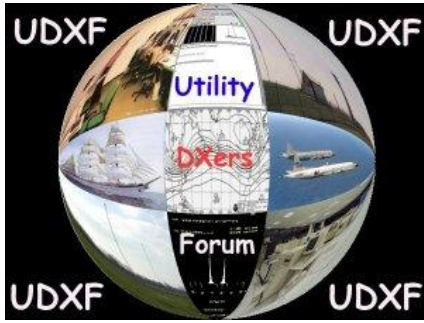
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NOTE FROM THE EDITOR



UDXF and Numbers & Oddities wish you and yours a safe, healthy, and prosperous new year!

Thank you for your continuing support, your tips, logs and transcripts. Special thanks to Paolo, Dave, and the Priyom Team. I couldn't have done it without you.

Ary

Due to unforeseen circumstances, the publication date has been delayed again. Unfortunately, I can't give a fixed publication date. N&O will be released when I have time, which varies quite a bit.

There were again various outages of the Polish 11 net. Also odd broken messages and several E11 and S11a were not repeated.

The Russians were busy, as so often. Besides the fixed schedules we heard several E06, S06, S06c, M14, and a large amount additional F01, F06, and F06a transmissions. My special thanks to PY for most of these logs and transcripts.

VOICE STATIONS

E06

Test transmission switching between USB and LSB

10755 kHz, 17-12, 0858 UTC, USB 975 975 975

10755 kHz, 17-12, 0900 UTC, USB 975 975 975 00000 975 975 975 00000 975 975 975

10755 kHz, 17-12, 0905 UTC, USB/LSB

975 975 9 [USB -> LSB] 75 975 [LSB -> USB] 975 (R3m45s) 493 52

94018 49438 88309 89844 29755 43522 86822 37777 65396 57739

72887 46478 61340 73571 81729 24160 70696 11630 34288 23723

[3s silence] 81729 [2s silence]

975 975 [USB -> LSB] 975 [LSB -> USB] 975 (R1m45s)

81729 24160 70696 11630 34288 23723 90417 25667 50094 22979

20880 31825 61293 93911 71263 39603 [5s silence]

975 (R1m35s) 9 [2s silence]

93911 71263 39603 73755 62428 59358 39251 87135 62674 86991

50022 99152 38331 45245 90772 16975 62599 18605 29221 76322

99023 44889 16417 12002 55770

493 52 00000

Recomposed message:

975 493 52

94018 49438 88309 89844 29755 43522 86822 37777 65396 57739

72887 46478 61340 73571 81729 24160 70696 11630 34288 23723

90417 25667 50094 22979 20880 31825 61293 93911 71263 39603

73755 62428 59358 39251 87135 62674 86991 50022 99152 38331

45245 90772 16975 62599 18605 29221 76322 99023 44889 16417

12002 55770

493 52 00000

17469/16217/14794 kHz, 1000/1020/1040 UTC

17469/16217/14794 kHz, 04-12/06-12, 1000/1020/1040 UTC

427 427 427 1 941 144 941 144
 29541 09628 40326 76516 07142 16025 56508 78375 14514 47504
 64798 03992 61628 20831 90953 97453 52615 56566 67131 78245
 12616 68568 68783 94384 01070 27676 95325 90757 05991 78089
 91757 97279 46211 91766 01119 73283 33800 91896 66529 89296
 87508 55538 94842 91454 83223 71377 93530 71483 93122 31663
 48159 26760 53358 15869 61708 18914 22573 45706 49339 50429
 02614 38208 18252 49785 14613 83970 11389 88148 71831 27276
 48710 61380 45914 82003 53899 62492 28142 88200 19255 66102
 24747 82451 81911 25294 33626 66194 46669 81084 75823 47737
 19010 80326 06804 08967 36984 41597 82183 98272 81750 76247
 72381 11723 74730 63822 41374 81154 98754 84049 59485 55061
 98598 98814 79841 81635 54857 21688 82857 39021 08114 07118
 06734 01775 54637 63451 06127 80510 87309 66259 52151 47161
 02366 92723 65076 76266 70513 15057 52326 88840 08147 41932
 05371 60152 03235 50506 000 000

17469/16217/14794 kHz, 18-12/20-12, 1000/1020/1040 UTC

427 427 427 1 767 189 767 189
 87841 42444 26762 44371 60478 80843 64923 44650 88785 48098
 57627 97336 12789 36273 55581 39912 90524 49990 58155 64393
 07842 71927 19925 02589 48858 98805 75694 95066 59021 20276
 66548 68468 81914 30560 45017 85887 27322 19999 47327 05113
 30604 04814 77569 88365 92791 17644 55214 58180 07442 56349
 92351 93892 37529 69874 65137 08838 30204 70206 15253 79063
 95537 67697 58185 40644 00634 95038 60180 55462 07951 11982
 91445 72100 66700 88921 88026 88214 48358 07551 03886 61367
 75582 84509 84374 13105 21865 90246 67942 23555 00618 58208
 11084 40214 92674 72788 47944 27921 66243 71318 27647 88471
 82424 99499 93345 01892 29737 29111 14005 90061 06487 97589
 93957 71349 60677 24535 23949 22011 15447 85998 86468 19624
 36515 08783 39899 39581 92847 02170 55850 00171 14047 03187
 65682 29480 15163 08695 01027 72523 76582 28028 66777 79951
 93362 26390 80029 45729 35786 64767 99611 32108 84159 85118
 22640 24668 07846 18151 77382 43180 37665 21046 55396 82326
 78719 88628 37983 52526 94130 33197 57449 66550 16982 99208
 01822 63159 99411 84506 57434 71448 98535 44908 52816 48871
 62686 24896 05281 66075 59317 68320 81875 09598 30934 000 000

13539/12139/10239 kHz, 1500/1520/1540 UTC

13539/12139/10239 kHz, 09-12/12-12, 1500/1520/1540 UTC

512 512 512 1 6928 137 6928 137
 28463 06971 29908 07633 82418 34457 98216 05485 47346 30208
 64705 64460 63701 60258 63684 86320 07812 92464 10936 47438
 74372 43637 39300 28854 01462 29556 56624 54113 30692 50305
 00845 90719 12170 11144 51106 99078 85737 09017 06938 54481
 80546 49156 52363 52964 06614 54851 98297 41762 56218 44131
 02268 04112 07336 87295 80264 49510 41474 07917 98138 99383
 01201 52799 74344 03520 20981 39502 43209 26971 66107 01582
 50799 32455 43416 04534 96511 13017 71995 79017 43952 63660
 22289 48711 70331 35462 36103 35305 40113 67048 06263 40087
 20133 59325 52693 44146 03483 64152 78484 10758 69543 62463
 25221 91299 49062 11016 16779 33824 59510 01124 81455 66870
 67336 67769 55236 82034 49976 62883 86030 75114 61270 64506
 93144 58665 19741 45903 66972 78802 06935 81042 97977 84974
 54733 80575 43697 37388 11384 05100 63257 000 000

13539/12139/10239 kHz, 23-12/26-12, 1500/1520/1540 UTC

512 512 512 1 1905 189 1905 189
 61254 41492 27020 19634 01758 66196 98107 76753 19208 56418
 31345 26996 80927 55551 04249 76736 59868 84779 73483 27347
 17598 48487 57519 39176 40600 16532 65214 77595 44528 36681
 48237 85557 93947 59586 77730 07308 43675 30125 63175 82435
 40204 44563 65340 84012 31755 56320 79237 26551 79325 47452
 99985 81964 05614 97011 28121 53005 51981 92532 94154 01108
 23187 90515 19320 37441 95680 53497 24225 24315 99567 71148
 57787 56586 89094 03543 46983 24892 71652 47228 76365 05110
 57772 72533 68226 37386 21600 81840 01067 87142 06223 68802
 03737 76465 64188 21750 60892 31974 00616 79092 56363 94482
 00701 87177 71654 51258 95603 62943 77682 61711 74152 12527
 50929 46495 34514 11885 11214 80930 45501 16291 68010 75709
 24559 19355 49215 11632 95195 79370 34206 40981 59942 71684
 65255 03906 61804 14262 67679 93633 78465 94988 88296 58992
 17987 80856 99481 52209 51436 70148 57259 56883 04940 68262
 67275 79138 77743 64115 84318 63001 16268 47867 79842 93950
 10291 75848 77014 61018 23467 39749 14910 99022 64631 41601
 40080 91051 35198 08238 97100 27814 40085 28886 94236 01586
 13948 29630 72940 54480 71876 56920 17630 83336 73471 000 000

E11a

None of the red messages were repeated. All other attempts for messages failed on Dec 1st. The used IDs of these transmissions are also incorrect and there were again short periods without transmissions of Polish 11 (E11, S11a, F03, P03)

8102 kHz, 01-12, 0315 UTC

255/34 Attention
 22057 09671 52004 89064 05447 62131 53893 16643 17082 82144
 34362 27108 80368 54787 48104 66275 27041 38053 14998 22233
 83716 75304 71103 69243 04988 56764 69971 48368 07033 81591
 16029 84081 14953 42364
 Attention (message repeated) Out

20286 kHz, 01-12, 0600 UTC

150/30 Attention
 44 11 55 77 99
 Attention
 4 1 5 7 9
 Out

**14972 kHz, 01-12, 0645 UTC**

416/32 Attention
 75734 06372 96312 35656 77356 37285 43925 54786 34328 84296
 40728 06454 41227 96860 22707 75860 78488 02955 53477 34887
 17682 19769 00181 61843 07024 83822 27211 87827 19746 52908
 98924 26710
 Attention (message repeated) Out

20167 kHz, 01-12, 0715 UTC

754/39 Attention
 34055 98193 47313 78147 90092 71782 75402 00744 67679 99560
 26235 10400 28653 54608 01042 77190 34601 57770 56621 80545
 12519 06587 70497 44321 56292 63188 82011 18230 34221 83920
 94367 68171 79313 89856 54332 91128 55260 73183 34395
 Attention (message repeated) Out

10213 kHz, 01-12, 0745 UTC

262/37 Attention
 29055 54857 82337 13499 82018 48496 23682 77466 93581 38632
 48105 04719 31694 81184 15774 28271 89095 39325 28414 53118

63070 95065 21612 35142 64750 41686 62087 52435 31897 65093
03278 77017 62545 04372 51424 75853 31145
Attention (message repeated) Out

23353 kHz, 01-12, 0830 UTC



150/30 Attention Attention Attention
6 Out
6 Out
Attention Attention Attention Attention
Out Out
22 Attention Attention
6 Out
Attention Attention
2 out

12067 kHz, 01-12, 0845 UTC

719/39 Attention
43010 53048 82818 67033 80691 66025 20111 65917 31241 59553
35513 06429 57104 95093 29381 27739 25664 48927 91504 65325
22839 51971 98837 49912 44068 14305 12034 97460 14094 10516
78398 99211 67917 91576 27055 12203 44117 43911 59008
Attention (message repeated) Out

15915 kHz, 01-12, 0900 UTC

535/31 Attention
16414 99221 81794 08272 30092 07932 74523 72974 44110 95296
74722 04715 06358 46644 43584 18042 52495 61752 37681 69761
97700 06436 78494 90931 27392 57238 76694 70707 44083 88578
37205
Attention (message repeated) Out

14410 kHz, 01-12, 1045 UTC



150/30 Attention
00 99 66 44
11
Attention Attention
77
Attention
0 9 6 4
1
Attention
7
Out

4505 kHz, 10-12, 1610 UTC. 390/00 Out

4505 kHz, 13-12, 1610 UTC. Message instead of null

394/36 Attention
38951 69877 95049 03254 97400 35915 75750 02427 70940 99667
98265 22506 68534 59423 55505 17241 18635 93985 19934 00475
45091 78172 68211 71770 18024 57461 47889 99553 96116 66458
97572 15762 07695 48521 14648 12765
Attention (message repeated) Out

23031 kHz, 16-12/18-12, 0745 UTC

224/37 Attention
06769 53391 38387 55520 82733 37409 66226 88320 93637 01138
97286 07240 47838 71503 42541 49967 99403 20912 30871 24508
49514 31607 87530 85768 58310 90858 07527 24562 91837 02278
72719 98632 82613 12506 17185 82089 35058
Attention (message repeated) Out

7469 kHz, 17-12/18-12, 0930 UTC

270/35 Attention

66071 68372 12009 95722 75432 39641 30580 79042 59408 77972
30592 66724 90736 25967 21072 13360 49383 85612 21571 46621
51427 51039 01880 65861 62320 79524 86095 43243 53367 38734
17432 90774 32117 32821 57575
Attention (message repeated) Out

S06**11616/9322 kHz, 01-12/02-12, 0400/0420 UTC**

480 135 60

62140 48517 10721 78644 54252 94702 46238 61491 06428 03376
19116 26070 93436 74927 38995 34027 65779 48160 06414 95650
87862 84931 04749 73308 73932 43554 35999 04117 20198 33167
61354 46545 56577 66239 32493 80627 66523 51412 24526 16482
48341 93857 06558 90803 16453 95347 10764 56052 66038 71216
85952 91990 49498 26401 46535 94274 38159 57756 52837 19789
135 60 00000

11616/9322 kHz, 03-12/04-12, 0400/0420 UTC

480 513 34

76754 72086 35555 10206 11322 87876 08857 46409 30561 23913
31893 94126 23146 13389 94728 99169 70560 00800 80270 53198
91715 58810 17338 02816 07306 03257 24452 12286 71625 48495
55290 34546 47392 70253
513 34
480 679 22
75392 84971 05642 99950 86662 22925 77166 35023 92534 21157
94219 57452 29064 18605 19810 98953 13208 66924 21578 19482
28491 77561
679 22 00000

11616/9322 kHz, 05-12, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 08-12/09-12, 0400/0420 UTC

480 726 51

36555 53201 59131 80325 59264 20108 86544 12158 44125 32171
82025 47324 18444 44541 89470 21008 11635 46753 43825 19338
86345 87078 36630 25864 64598 71989 57050 45477 41138 01646
13091 29208 01172 27363 62665 48343 84700 41983 09223 91292
64607 39100 41608 81649 30713 02067 22850 40882 96968 08727
57562
726 51 00000

11616/9322 kHz, 10-12/11-12, 0400/0420 UTC

480 913 27

62254 31981 31468 18908 12471 12864 60149 60410 92043 82649
26794 72751 01986 36712 34789 80708 79629 03972 15028 45269
37509 60065 85520 30571 41798 38282 99794
913 27
480 256 33
56368 08132 15393 31160 18448 77953 19721 19417 45468 04905
29656 24578 46634 77279 72969 92007 56357 80088 14543 20217
12686 05998 04783 71655 54983 62444 08977 82875 45528 98391
34809 97826 44726
256 33 00000

11616/9322 kHz, 12-12, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 15-12/16-12, 0400/0420 UTC

480 791 52
81900 26943 04764 77469 86650 24135 10972 74871 31151 62501
24214 58592 89549 14710 92480 66803 18800 70965 69013 51813
85992 69443 33241 28533 29393 95187 54013 34333 76593 64651
81043 30067 68237 38063 75519 96845 60752 26826 15812 08336
06514 88110 39216 83209 34897 23850 05663 47471 82643 26313
94349 61332
791 52 00000

11616/9322 kHz, 17-12/18-12, 0400/0420 UTC

480 526 32
16679 92858 39675 79625 15206 29580 95561 79724 15418 11156
15696 90023 56742 75431 67799 16584 81768 71742 55559 37879
58034 88643 51023 35503 75318 59078 14193 60908 23094 66427
17020 24128
526 32
480 971 25
38511 14789 56352 39082 22527 89951 09040 94231 93465 03696
88548 23336 84966 32006 88729 40344 65283 83710 66498 68684
20779 11687 66590 08768 12165
971 25 00000

11616/9322 kHz, 19-12, 0400/0420 UTC

480 480 480 00000

11616/9322 kHz, 22-12/23-12, 0400/0420 UTC

480 362 57
33774 78711 61634 07017 10628 51569 92595 13835 98034 21484
38130 79009 00004 54674 35159 91325 56332 04494 97305 28154
75141 92872 15843 28934 44029 84826 25966 95309 74520 29457
05598 53774 59508 65913 98886 42463 48369 17715 81607 05771
69443 23899 10647 11773 54563 80422 24747 23961 45323 90253
88719 91266 85773 45588 98294 41048 31226
362 57 00000

11616/9322 kHz, 24-12/25-12, 0400/0420 UTC

480 517 21
39222 16520 94401 18923 33054 64356 68300 68248 14359 00858
18559 47969 98868 94304 09710 70459 80844 31012 23393 69592
29990
517 21
480 926 34
08620 22660 56788 43870 70479 29583 30597 64247 05900 58627
56906 08176 22100 95760 89948 43755 19325 15923 47951 54777
54785 71446 98995 88761 76608 30576 97369 57443 19996 27023
75080 13127 82787 06493
926 34 00000

Test transmissions

Both test transmissions switched between USB and LSB.

10755 kHz, 17-12, 1052 UTC, USB. 1000Hz test tone then 975 once

10755 kHz, 17-12, 1053 UTC, USB/LSB

975 (R15s) 97 [USB -> LSB] 5 9 [LSB -> USB] 75 975 (R40s) 97 [USB -> LSB] 5 [LSB -> USB] 975 (R2m55s) 742 34
16309 33827 95091 36666 63976 47520 86024 61253 76772 63160
13928 53763 82095 38429 83853 73997 45404 78786 26597 54010
98007 92920 43033 32896 99337 45036 78666 68864 75730 95867
53955 49843 91476 78421 [1m30s silence]
975 (R1m15s)
76772 63160 13928 53763 82095 38429 83853 73997 45404 78786
26597 54010 98007 92920 43033 32896 993 [USB -> LSB] -99337

45036 [LSB -> USB] 36 78666 68864 75730 95867 53955 49843
91476 78421
742 34
975 (R1m) 964 34
58249 31582 24766 98106 74108 53195 71959 38105 88600 40745
54703 32610 28753 37623 65644 51650 26960 20317 22607 59544
86047 78444 48318 84977 46866 39416 33226 68448 34441 25238
83214 22547 89347 26410
964 34 00000

Recomposed messages:

975 742 34
16309 33827 95091 36666 63976 47520 86024 61253 76772 63160
13928 53763 82095 38429 83853 73997 45404 78786 26597 54010
98007 92920 43033 32896 99337 45036 78666 68864 75730 95867
53955 49843 91476 78421
742 34
975 964 34
58249 31582 24766 98106 74108 53195 71959 38105 88600 40745
54703 32610 28753 37623 65644 51650 26960 20317 22607 59544
86047 78444 48318 84977 46866 39416 33226 68448 34441 25238
83214 22547 89347 26410
964 34 00000

10755 kHz, 18-12, 0652 UTC, USB. 1000Hz test tone then 975 975 975 975

10755 kHz, 18-12, 0652 UTC, USB/LSB

975 (R30s) 97 [USB -> LSB] 75 975 (R10s) 97 [LSB -> USB] 5 975 (R3m10s) 438 52
87539 76810 17544 33962 09030 20368 37650 54975 60931 36237
09644 32375 06082 07720 70608 2 [2s silence]
975 (R45s)
60931 36237 09644 32375 [USB -> LSB] 0 [LSB -> USB] 06078 (group corrected)
07720 70608 29480 25595 38016 99714 32949 81746 58405 27840
44599 95801 11120 20711 40894 64215 24121 21528 29800 61658
19955 63993 59690 04291 25878 91692 59989 71727 77441 44757
18240 11134 32717 99748 23288 71889 39355 73709 29265
438 52 [25s silence]
975 (R45s)
23288 71889 39355 73709 29265
438 52 00000 [45s silence]
975 [no further activity] fast pace

Recomposed message:

975 438 52
87539 76810 17544 33962 09030 20368 37650 54975 60931 36237
09644 32375 06078 07720 70608 29480 25595 38016 99714 32949
81746 58405 27840 44599 95801 11120 20711 40894 64215 24121
21528 29800 61658 19955 63993 59690 04291 25878 91692 59989
71727 77441 44757 18240 11134 32717 99748 23288 71889 39355
73709 29265
458 52 00000

S06c

12124 kHz, 02-12, 1645 UTC, USB	11186 (R4m)
6779 kHz, 03-12, 1235 UTC, USB	11808 (R4m) (test tones at 1226z)
4819 kHz, 03-12, 1245 UTC, USB	11808 (R4m) (test tones at 1240z)

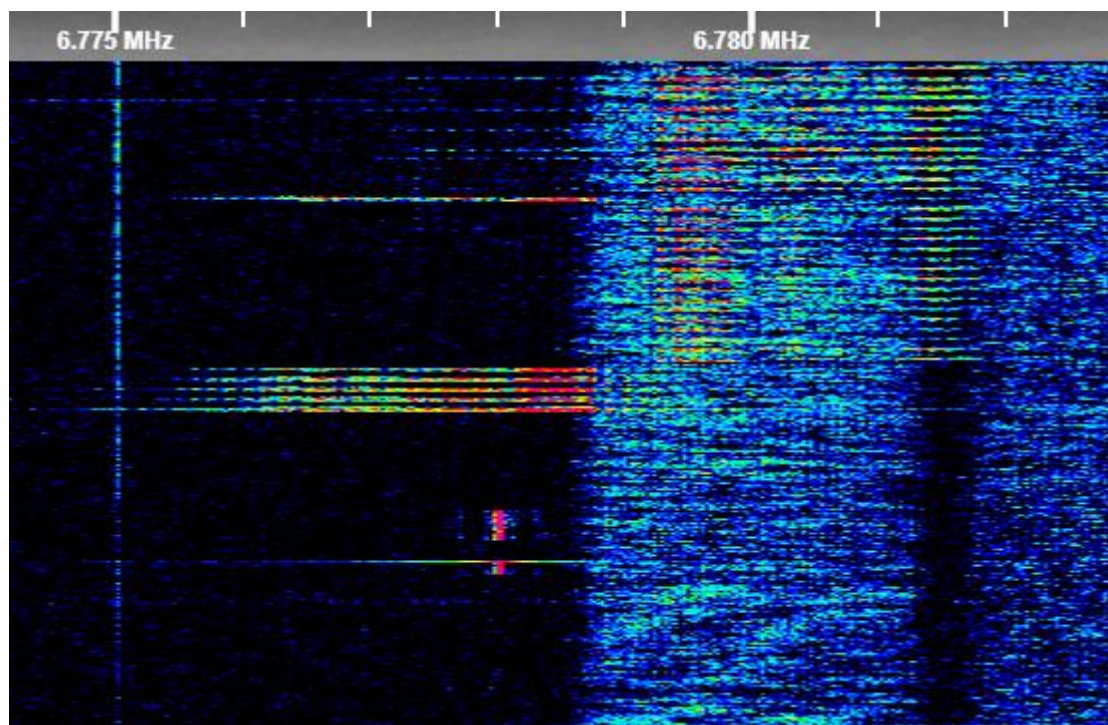
Considering the weird ID and frequency choice, this might be domestic/testing.(PY)

Another day, and interestingly enough there were J3E USB/LSB switcheroo test transmissions on 10755kHz the next days as well (PY)

6779 kHz, 16-12, 1222 UTC, LSB/USB	[LSB] 11808 (R20s) 1180 [LSB -> USB] 8 11808 (R1m20s) 11 [USB -> LSB] 808 11
------------------------------------	--

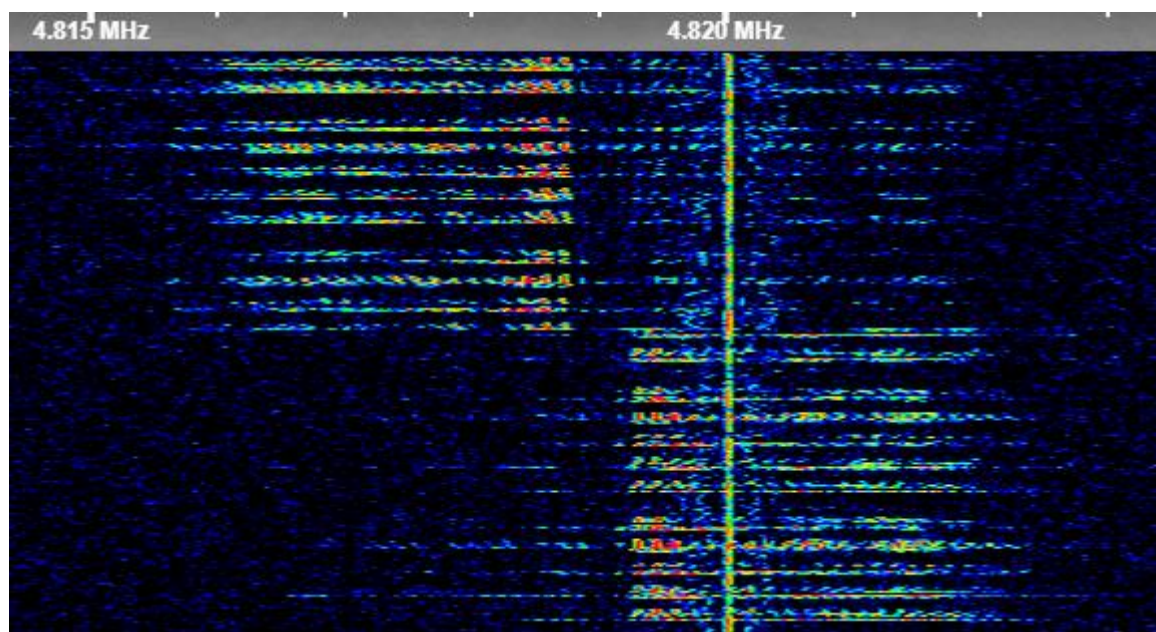
6779 kHz, 16-12, 1235 UTC, USB/LSB

[LSB -> USB] 808 11808 (R3m50s) (test tones in LSB at 1220z). See screendump below.
[USB] 11808 (R1m30s) 1 [USB -> LSB] 1 [LSB -> USB] 808 11808 (R2m25s) (test tones in USB at 1228z)



4819 kHz, 16-12, 1245 UTC, USB/LSB

[USB] 11808 (R2m) 11 [USB -> LSB] 808 11808 (R20s) 1180 [LSB -> USB] 8 11808 (R1m15s) 1 [USB -> LSB] 1808 11808 11808 (test tones in USB at 1240z). See screendump below.



19389 kHz, 16-12, 1422 UTC, USB 11002 (R4m)
19389 kHz, 16-12, 1435 UTC, USB 11002 (R4m)
17456 kHz, 16-12, 1445 UTC, USB 11002 (R4m) (test tones at 1440z)
ID 2 would correspond to the Russian embassy in Dar es Salaam.

S11a

None of the red messages were repeated.

9050 kHz, 01-12, 0700 UTC

478/33 Vnmaniye

44926 12886 33441 54752 31934 79126 10860 36298 36706 65430
21720 42921 34873 77361 97019 71184 61353 88739 51586 32778
91695 04462 94171 71253 02843 13966 33484 63572 30012 57326
77044 65818 56145

Vnmaniye (message repeated) Konets

6252 kHz, 01-12, 0915 UTC

480/35 Vnmaniye

61540 78746 02976 76785 50678 28511 58851 06012 82460 29062
05111 10041 44871 07459 61803 51208 54061 27810 90261 32284
86979 86962 49359 02668 88788 03107 27353 28464 12625 58747
91145 79848 20624 48087 58940

Vnmaniye (message repeated) Konets

10448 kHz, 16-12/19-12, 1400 UTC

426/35 Vnmaniye

39568 20796 47076 21635 15762 68351 10454 13966 83736 55622
22070 49857 44498 84330 16947 29553 03448 05792 48988 10688
67996 32681 32173 80034 97495 19122 86297 65658 16955 56016
21658 89041 51931 74555 61688

Vnmaniye (message repeated) Konets

5371 kHz, 27-12/28-12, 0830 UTC

373/40 Vnmaniye

69447 35183 19722 10601 65771 66729 25689 60979 03320 98185
82770 61821 92982 78650 47786 70130 92906 25869 28130 48113
98242 87868 89162 77606 71158 48556 26235 33252 57295 66962
15835 66182 97836 46787 96953 80751 93216 90906 70703 99793

Vnmaniye (message repeated) Konets

11486 kHz, 31-12, 1850 UTC

287/35 Vnmaniye

11443 27593 78848 51708 41491 31330 52483 29149 45279 96001
66010 51940 53351 72376 10950 09774 08462 48010 56990 00322
37158 23211 73675 61732 33594 55669 37414 15633 39813 47797
06798 75024 11209 39924 71353

Vnmaniye (message repeated) Konets

V07

18249/15949/14549 kHz, 07-12, 0200/0220/0240 UTC

295 295 295 1 6156 98 6156 98

58326 11722 75800 41889 42102 15509 41904 47380 17607 57755
23443 11935 40148 22275 73122 45056 17275 16955 18076 86589
93904 12307 96741 05935 31736 55306 77155 92783 43744 88433
80292 07381 26175 36464 00882 75036 67644 29986 05240 31609
24218 90633 18066 68111 21785 48476 63642 18703 04227 01013
44091 73980 59771 81881 66158 02875 72898 81247 01818 50521
36824 67975 71800 93047 75036 04086 03751 07957 24950 04522
53280 88904 34717 06326 90540 80503 70853 32083 14385 46606
97419 12807 32031 04807 50505 92354 40641 45736 23691 99123
69290 02723 88024 10809 78640 18699 33173 86770 000 000

18249/15949/14549 kHz, 14-12, 0200/0220/0240 UTC

295 295 295 1 1669 121 1669 121
 61096 16443 10256 76848 09176 99444 56453 39973 96999 34048
 89910 72021 75969 66094 67769 61785 22717 58745 06626 01301
 31298 08675 80967 98577 09476 45234 33495 07117 46514 36618
 12594 79621 09851 49083 21822 71794 78437 18939 07281 30658
 82807 14691 44746 69629 82536 98294 77090 82905 41938 05709
 14735 74723 33574 58573 75182 02050 78497 90103 69910 49052
 00542 42513 52398 36529 44313 18515 31121 01178 96905 62722
 69143 56457 17323 36458 55608 43155 54341 65192 43506 27528
 59525 03893 03809 37393 20869 37118 17918 51034 23458 17192
 41706 66355 83468 04617 03834 81169 23245 30636 89693 49028
 32588 68684 72523 48180 63924 83268 86744 47652 09757 43828
 38770 04242 45900 19647 95638 41985 17892 99219 86910 73798
 56101 000 000

18249/15949/14549 kHz, 21-12, 0200/0220/0240 UTC

295 295 295 1 6546 101 6546 101
 96620 49983 31758 70822 90747 43629 67918 39709 80729 39071
 99393 45357 74599 43287 90661 90321 46069 93397 69631 27514
 46197 33195 06517 48866 65343 65156 95125 77696 94988 05101
 77814 81070 24019 61272 92429 19553 37734 44337 07525 72164
 12315 85444 81916 56899 48033 07483 90590 06242 45176 39826
 40821 34822 40120 63232 40574 10633 74786 16079 67332 11851
 49186 26299 89487 66215 82322 76555 26127 90545 70604 12442
 24468 07821 80127 55372 44766 86185 00195 05769 06027 54694
 75896 07645 26851 37199 81043 02282 61347 06471 54431 27848
 15482 48526 59716 24333 01965 57629 47578 39773 78487 57766
 07340 000 000

18249/15949 kHz, 28-12, 0200/0220 UTC

295 295 295 000

V13 - New Star Broadcasting Station (星廣播電台 Xīngxīng guǎngbò diàntái)

No reports this month.

MORSE STATIONS**M01**

There was not much M01 activity in December.

4490 kHz, 23-12, 2000 UTC, CW. Several mistakes

197 850 850 30 30 = =
 64092 17490 63851 95036 85902 45830 17693 76041 08503 78030
 74962 06805 28080 02658 02658 61952 94376 1804 (928) 9022 (9165) 95103
 39354 70541 84080 36490 64701 65286 50913 02014 87140 90984 36379
 850 850 30 30 000

M12

11564/10487/9319 kHz, 1800/1820/1840 UTC

11564/10487/9319 kHz, 04-12, 1800/1820/1840 UTC

258 258 258 1 ... too weak to copy

11564/10487/9319 kHz, 11-12, 1800/1820/1840 UTC

258 258 258 1 8624 83 8624 83
22525 56328 36202 60147 30926 43815 15076 43724 83584 73267
59271 93746 78264 11773 21682 26199 89852 93478 27542 84605
30647 64336 76739 93778 91471 75407 43810 65998 25605 28139
10294 57427 48950 27221 39975 01594 57729 45465 70992 50322
45105 27573 48549 43651 56725 77364 06438 45966 68236 55696
31032 86487 81560 39464 54031 58188 79587 42422 68675 55517
00004 49077 18118 55444 62972 01843 44796 51043 71796 20088
68468 44387 22485 77219 39500 03073 15786 33088 37053 14107
68969 97843 97760 000 000

6897/7795/8187 kHz, 2200/2220/2240 UTC**6897/7795/8187 kHz, 12-12/13-12, 2200/2220/2240 UTC**

871 871 871 1 1362 123 1362 123
54925 22132 18473 49847 14249 07868 54851 61312 13097 67671
25295 49462 48387 86585 57497 47382 20916 14914 48156 52944
38773 14611 27819 19989 87728 64667 51443 42714 10863 37580
50612 36512 18711 55704 49955 91925 61294 25256 70649 14584
53927 10798 62404 11423 83163 51317 43809 72219 38810 98954
64304 03126 26883 53826 21225 77615 66188 67611 41020 87625
60809 38628 67789 23748 30369 91351 86787 94951 83070 96289
13757 26361 68569 90974 29053 61638 62762 25825 23760 07762
80094 70930 28378 88122 13306 95512 35066 94720 24734 18927
10817 84298 70035 36026 45863 68805 85632 61781 37824 50383
90095 91911 62492 62156 61679 60913 81394 21295 99583 55431
97749 09782 20659 11474 68276 72854 30485 77095 75583 32198
21938 65588 50516 000 000

12135/11452/10627 kHz, 1900/1920/1940 UTC**12135/11452/10627 kHz, 07-12, 1900/1920/1940 UTC**

573 573 573 1 5954 102 5954 102
94383 61795 65532 74233 43834 99677 33928 96443 18400 23779
52582 21720 39468 56784 91064 66371 88060 59526 67096 41515
36955 84112 10052 84246 10839 35136 56850 88520 31504 24400
71734 83316 71098 50515 05744 49334 54942 02262 69982 33679
33167 61567 45885 05773 33594 25366 22648 59373 46553 85948
28445 92283 49374 73717 76541 10271 51743 81285 63394 08698
42827 45406 64939 93998 52043 69264 50620 88952 51040 41730
11429 85797 89542 33416 08347 75386 38226 04278 50651 85471
12488 97475 41967 45554 95954 79450 33942 97379 73973 95471
97589 73656 38867 61284 90851 87760 96627 51886 53728 64328
74744 33695 000 000

12135/11452/10627 kHz, 14-12, 1900/1920/1940 UTC

573 573 573 1 7415 114 7415 114
68341 13682 15772 07628 90279 13854 44591 74410 16921 54762
91918 10854 35608 20228 04954 28190 53424 98624 66124 54239
24389 54120 70821 25801 31911 25092 94819 01565 09976 01363
24537 43259 36351 17627 59879 62744 91412 44980 42644 95298
94681 76652 91377 96464 50446 38226 49352 51871 07148 81883
44182 72435 93103 28387 49975 04221 42859 89969 75715 65187
20033 43026 64434 15558 30224 48458 74501 17981 60347 42208
36776 08444 55979 70825 59556 47736 62742 74356 75353 93683
75738 42947 94415 28091 57180 52101 50355 07964 67650 55657
19885 01442 69263 77456 75264 51655 12217 75818 66240 01988
63724 31371 91522 64939 45107 35737 16456 2227_ 68829 02239
41478 68502 14616 82031 000 000

12135/11452/10627 kHz, 1900/1920/1940 UTC

12135/11452/10627 kHz, 15-12, 1900/1920/1940 UTC

573 573 573 1 9751 111 9751 111
14229 30303 66590 14375 28546 64911 32221 63199 79990 41854
91968 12053 16197 93077 76698 36999 20473 18888 86163 03522
23524 50007 92288 81394 46971 09293 19341 73567 26218 18480
40873 01934 53114 50507 75533 67611 31413 60667 37314 03758
58296 70477 97875 25499 71459 97145 69814 28210 50832 91520
99200 77981 70938 39300 34598 64220 38014 85195 67402 19253
45570 58653 36980 61510 00980 90033 58938 65689 17544 09087
05586 59804 81572 82405 45225 53046 52130 66788 09934 49824
39478 91129 12735 34696 19279 62890 30995 13813 15908 11313
29597 46217 93263 18061 58187 99641 33496 36365 24519 81425
38207 04125 10666 51744 85934 39395 96407 88532 94074 81551
12089 000 000

14736/3478/12195 kHz, 0200/0220/0240 UTC

14736/3478/12195 kHz, 01-12, 0200/0220/0240 UTC

741 741 741 1 8071 65 8071 65
02597 84115 62437 27431 08350 69540 72297 80396 73563 94601
07262 34417 11331 85871 66592 55598 90848 96693 75486 12319
60790 69045 38143 14786 98487 92168 06105 91297 13911 18904
60305 60857 38327 57453 05234 48882 62312 39317 67089 48013
93866 16937 45709 46693 89211 88034 50477 78187 59113 56252
59668 53302 38112 19477 16788 84342 71862 53680 60692 72483
27883 00589 33124 51513 01733 000 000

M14

Test transmissions

9463 kHz, 16-12, 0720 UTC

801 301 301 55 55 = =
79364 90615 37526 76359 71930 81822 41606 67739 37528 22362
52252 86795 92324 45769 75700 32466 44749 37921 34950 62880
76152 34066 23709 08860 27034 43702 99502 83205 62266 70469
51884 65492 13768 19242 06674 67018 24048 07627 52171 05635
39076 24036 98286 45117 23897 99533 04507 78779 99443 85631
37656 62006 23976 55244 45377
= = 301 301 55 55 00000

During that transmission, the transmitter left the carrier on when idle, which caused a few glitches in the preamble and postamble.

9463 kHz, 17-12, 1433 UTC. Slow beeps then 801 once

9463 kHz, 17-12, 1450 UTC

801 392 392 50 50 = =
62652 60225 68228 82939 32523 36419 73358 53817 63817 11665
44754 30571 62262 ____ 98 50086 40716 77990 74413 54333 35902
80318 43289 31452 85920 38511 77357 11617 94512 95241 70076
42147 _____
_____ 45994 14391 12386 10507 58725 39288 80826 92014 60740
= = 392 392 50 50
561 561 50 50 = =
56747 17825 29098 58364 14339 18441 34485 81135 71124 19285
96746 27709 57594 85728 87750 10698 67861 83646 84372 19640
88764 20148 37489 33932 90974 19504 84673 37721 27330 86086
19668 94527 44153 79246 55651 53439 75402 42398 70049 22997
18126 47799 23695 75987 21445 98068 68244 31086 76832 62888
= = 561 561 50 50 00000

9463 kHz, 19-12, 0748 UTC. Slow beeps

9463 kHz, 19-12, 0800 UTC

801 932 55 932 55 = =

32249 32249 96716 13391 17286 08637 96089 68404 38084 16183

26105 52468 91134 59059 98421 52859 [2s silence]

801 (R15s)

26105 52468 91134 59059 98421 52859 32716 93141 39857 15839

30059 09157 51874 62866 36127 75305 67440 93610 98464 50291

59928 49231 69329 02698 83761 34343 09272 97655 51485 21113

01363 36729 76944 83919 18255 61960 39268 38020 09259 60012

47345 80657 99628 27355 09466 58048

= = 932 935 55 55 00000

Recomposed message:

801 932 55 932 55 = =

32249 96716 13391 17286 08637 96089 68404 38084 16183 26105

52468 91134 59059 98421 52859 32716 93141 39857 15839 30059

09157 51874 62866 36127 75305 67440 93610 98464 50291 59928

49231 69329 02698 83761 34343 09272 97655 51485 21113 01363

36729 76944 83919 18255 61960 39268 38020 09259 60012 47345

80657 99628 27355 09466 58048

= = 932 935 55 55 00000

M21 - Russian Air Defense Forces (Во́йска ПВО Voyska PVO)

5397 kHz, 28-12, 0808 UTC =991108??8?????

M23

6961 kHz, 09-12, 1500-2300 UTC

8 (R5m45s)

6961 kHz, 10-12/15-12, 0000-2300 UTC

8 (R5m45s)

6961 kHz, 16-12, 0000-1700 UTC

8 (R5m45s). The last reported transmission was on 16-12 at 1700z. Very strong radar interference from 1800z till 17-12, 0315z made it impossible to hear M23.

6961 kHz, 16-12, 0652 UTC

Long tone (5s) followed by TEST DE ICOM ICOM (R7m18s) 8 (R5m45s)

M89 - Chinese Military

5501 kHz, 24-12, 1225 UTC, i.p.

1820 RMKS GP2F TO LPPA 20 994B5 NR 012

NR 012 CK 129 24 1224 1815 RMKS 2626 TO 2719 =

NR 012 CK 129 24 1224 1815 RMKS 2626 TO 2719 =

NR 012 CK 129 24 1224 1815 RMKS 2626 TO 2719 = (Keeps to sending msg header)'

M95 - Chinese Military

7777 kHz, 09-12, 1042 kHz, i.p.

CQ DE I3IY NR 31028/CCK CK 99 24 1202 09 RMKS CQ =

CQ DE H3SY H3SY NR 653/ 18 334 1116 1945 RMKS TO HH VCRB TO H4VR K

NR 652/CCK CK 19224 11217 1945 RMKS VE TO 5VHR

NR 631/CCK CK 1912410121000 RMKS Z4WE TO Z

NR 0153/CCK CK 4023 1110 133 TO PJ0 TO PJ SZSJ =

NR 630/CCK CK 151 24 1106 2320 RMKS MM0G TO XX0

NR 0150/CCK CK 55 MR 0150/CCK CK 49 24 1106 1250 RMKS XI00 TO XMX0

NR 582/CCK CK 145 24 1012 1650 RMKS GHY TOI X5XT

NR 573/CCK CK 193 24 10009 1550 RMKS CMJZ TO 5C5J

NR 0980/CCK CK 99 24 1009 0900 RMKS CQ

NR 094/CCK CK 99 24 10912 0900 RMKS CQ

NR 0948/CCK CK 191 24 0901 2030 RMKS ZV9 TO

NR 0938/CCK CK 99 24 82 09 20 RMKS CQ

NR 46D/CCK CK 191 24 0818 0720 RMKS TNDD TO 2...

4156//9042 kHz, 08-12, 2340 UTC: V26 USB. Callup in Chinese voice, followed by a Q26 message which was repeated by M95.

NR 02 CK 26 49 1208 1748 =
 NR 063 CK 18 35 1209 0607 =
 NR 068 CK 17 35 1209 0635 =
 NR 17 CK 065 35 1209 0648 =

4156//9042 kHz, 09-12, 1157 UTC

NR 28 CK 083 35 1209 1448 =
 NR 069 CK 30 35 1209 1530 =
 NR 065 CK 22 35 1209 1558 =

UM04 - PROMRCh

Unfortunately I missed quite a few UM04 logs.

4375 kHz, 07-12, 0800 UTC

VVV VVV PROMRCh = 07 12 =
 1000 0940 1000 1180 1700
 1200 1040 1090 1270 1810
 1400 1010 1060 1220 1730
 1600 0970 1020 1210 1740
 1800 0590 0620 0720 1000
 2000 0040 0450 0530 0740
 2200 0360 0370 0420 0570
 0000 0380 0390 0430 0570
 0200 0490 0400 0450 0600
 0400 0400 0420 0470 0640
 0060 0360 0370 0430 0660
 0800 0680 0730 0880 1300
 = ABV
 VVV VVV PROMRCh = 07 12 =
 1000 0940 1000 1180 1700
 1200 1040 1090 1270 1810
 1400 1010 1060 1220 1730
 1600 0970 1020 1210 1740
 1800 0590 0620 0720 1000
 2000 0040 0450 0530 0740
 2200 0360 0370 0420 0570
 0000 0380 0390 0430 0570
 0200 0490 0400 0450 0600
 0400 0400 0420 0470 0640
 0060 0360 0370 0430 0660
 0800 0680 0730 0880 1300
 = AR

4735 kHz, 09-12, 0800 UTC

VVV VVV PROMRCh = 09 12 =
 1000 0930 0990 1070 1700
 1200 1040 1000 1260 1810
 1400 0990 1040 1210 1710
 1600 0960 1010 1190 1710
 1800 0600 0620 0720 1010
 2000 0430 0450 0520 0740
 2200 0360 0370 0420 0570
 0000 0370 0380 0430 0570
 0200 0390 0400 0450 0600
 0400 0400 0420 0470 0630
 0600 0360 0370 0430 0610
 0800 0670 0710 0860 1280
 = ABV
 VVV VVV PROMRCh = 09 12 =
 1000 0930 0990 1070 1700
 1200 1040 1000 1260 1810
 1400 0990 1040 1210 1710
 1600 0960 1010 1190 1710
 1800 0600 0620 0720 1010
 2000 0430 0450 0520 0740
 2200 0360 0370 0420 0570
 0000 0370 0380 0430 0570
 0200 0390 0400 0450 0600
 0400 0400 0420 0470 0630
 0600 0360 0370 0430 0610
 0800 0670 0710 0860 1280
 = AR

4735 kHz, 10-12, 0800 UTC

VVV VVV PROMRCh = 10 12 =
 1000 0950 1000 1180 1710
 1200 1040 1100 1280 1820
 1400 1000 1050 1220 1730
 1600 0970 1020 1200 1720
 1800 0600 0630 0730 1020
 2000 0430 0450 0520 0740
 2200 0360 0370 0420 0570
 0000 0380 0380 0430 0570
 0200 0390 0400 0450 0600
 0400 0410 0420 0470 0640
 0600 0360 0380 0430 0610
 0800 0670 0710 0860 1280
 = ABV
 VVV VVV PROMRCh = 10 12 =
 1000 0950 1000 1180 1710
 1200 1040 1100 1280 1820
 1400 1000 1050 1220 1730
 1600 0970 1020 1200 1720
 1800 0600 0630 0730 1020
 2000 0430 0450 0520 0740
 2200 0360 0370 0420 0570
 0000 0380 0380 0430 0570
 0200 0390 0400 0450 0600
 0400 0410 0420 0470 0640
 0600 0360 0380 0430 0610
 0800 0670 0710 0860 1280
 = AR

4735 kHz, 11-12, 0805 UTC, i.p.
00 0400 0410 0420 0470 0640
0600 0360 0380 0430 0610
0800 0660 0710 0860 1270 =
AR

4735 kHz, 12-12, 0800 UTC
VVV VVV PROMRCh = 12 12 =
1000 0940 1000 1180 1710
1200 1040 1100 1280 1830
1400 1010 1050 1220 1730
1600 0970 1020 1200 1720
1800 0610 0640 0730 1030
2000 0430 0450 0520 0740
2200 0360 0370 0420 0570
0000 0380 0390 0430 0580
0200 0390 0400 0450 0600
0400 0410 0420 0470 0630
0600 0360 0380 0440 0610
0800 066E 0710 0860 1260
= ABV
VVV VVV PROMRCh = 12 12 =
1000 0940 1000 1180 1710
1200 1040 1100 1280 1830
1400 1010 1050 1220 1730
1600 0970 1020 1200 1720
1800 0610 0640 0730 1030
2000 0430 0450 0520 0740
2200 0360 0370 0420 0570
0000 0380 0390 0430 0580
0200 0390 0400 0450 0600
0400 0410 0420 0470 0630
0600 0360 0380 0440 0610
0800 0660 0710 0860 1260
= AR

4735 kHz, 13-12, 0800 UTC
VVV VVV PROMRCh = 13 12 =
1000 0960 1010 1190 1730
1200 1060 1110 1290 1840
1400 1020 1070 1230 1740
1600 0980 1030 1210 1730
1800 0610 0640 0740 1030
2000 0440 0450 0530 0740
2200 0360 0370 0430 0570
0000 0380 0390 0430 0580
0200 0390 0400 0450 0620
0400 0410 0420 0470 0640
0600 0360 0380 0440 0610
0800 060 EEEEE =
0800 0660 0700 0850 1260
= ABV =
VVV VVV PROMRCh = 13 12 =
1000 0960 1010 1190 1730
1200 1060 1110 1290 1840
1400 1020 1070 1230 1740
1600 0980 1030 1210 1730
1800 0610 0640 0740 1030
2000 0440 0450 0530 0740
2200 0360 0370 0430 0570
0000 0380 0390 0430 0580
0200 0390 0400 0450 0620
0400 0410 0420 0470 0640
0600 0360 0380 0440 0610
0660 0700 0850 1260
= P EEEE = AR

4375 kHz, 14-12, 0800 UTC
VVV VVV PROMRCh = 14 12 =
1000 0960 1020 1200 1730
1200 1060 1110 1290 1840
1400 1020 1070 1240 1750
1600 0980 1030 1210 1740
1800 0620 0640 0740 1040
2000 0440 0460 0530 1740
2200 0370 0380 0430 0740
0000 0380 0390 0430 0580
0200 0390 0400 0450 0600
0400 0410 0420 0470 0640
0600 0360 0380 0440 0610
0800 0660 0700 0850 1250
= ABV
VVV VVV PROMRCh = 14 12 =
1000 0960 1020 1200 1730
1200 1060 1110 1290 1840
1400 1020 1070 1240 1750
1600 0980 1030 1210 1740
1800 0620 0640 0740 1040
2000 0440 0460 0530 1740
2200 0370 0380 0430 0740
0000 0380 0390 0430 0580
0200 0390 0400 0450 0600
0400 0410 0420 0470 0640
0600 0360 0380 0440 0610
0800 0660 0700 0850 1250
= AR

4735 kHz, 16-12, 0803 UTC
VVV VVV PROMRCh = 16 12 =
1000 0920 0980 1170 1690
1200 1020 1070 1260 1810
1400 0990 1170 1200 1710
1600 0940 0990 1170 1690
1800 0590 0620 0720 1010
2000 0420 0440 0510 0720
2200 0350 0360 0410 0560
0000 0370 0380 0430 0570
0200 0390 0400 0450 0600
0400 0400 0420 0470 0630
0600 0360 0380 0440 0610
0800 0640 0690 0830 1220
= ABV =
VVV VVV PROMRCh = 16 12 =
1000 0920 0980 1170 1690
1200 1020 1070 1260 1810
1400 0990 1170 1200 1710
1600 0940 0990 1170 1690
1800 0590 0620 0720 1010
2000 0420 0440 0510 0720
2200 0350 0360 0410 0560
0000 0370 0380 0430 0570
0200 0390 0400 0450 0600
0400 0400 0420 0470 0630
0600 0360 0380 0440 0610
0800 0640 0690 0830 1220
= AR

4735 kHz, 17-12, 0801 UTC
VVV VVV PROMRCh = 17 12 =
1000 0950 1000 1190 1720
1200 1040 1090 1280 1830
1400 1000 1050 1220 1720
1600 0950 1000 1180 1700
1800 0600 0630 0730 1020
2000 0420 0540 0520 0730
2200 0360 0370 0410 0560
0000 0380 0380 0430 0570
0200 0390 0400 0450 0600
0400 0400 0420 0470 0630
0600 0360 0380 0440 0610
0800 0640 0680 0830 1220
= ABV =
VVV VVV PROMRCh = 17 12 =
1000 0950 1000 1190 1720
1200 1040 1090 1280 1830
1400 1000 1050 1220 1720
1600 0950 1000 1180 1700
1800 0600 0630 0730 1020
2000 0420 0540 0520 0730
2200 0360 0370 0410 0560
0000 0380 0380 0430 0570
0200 0390 0400 0450 0600
0400 0400 0420 0470 0630
0600 0360 0380 0444 EEEEE *
0600 0360 0380 0440 0610
0800 0640 0680 0830 1220
= AR

4735 kHz, 18-12, 0800 UTC
VVV VVV PROMRCh = 18 12 =
1000 0940 1000 1190 1720
1200 1040 1100 1280 1840
1400 1000 1050 1220 1720
1600 0950 1000 1180 1700
1800 0600 0630 0730 1020
2000 0420 0440 0510 0730
2200 0350 0360 0410 0560
0000 0380 0380 0430 0570
0200 0390 0400 0450 0600
0400 0400 0420 0470 0630
0600 0360 0380 0440 0610
0800 0640 0680 0820 1210
= ABV
VVV VVV PROMRCh = 18 12 =
1000 0940 1000 1190 1720
1200 1040 1100 1280 1840
1400 1000 1050 1220 1720
1600 0950 1000 1180 1700
1800 0600 0630 0730 1020
2000 0420 0440 0510 0730
2200 0350 0360 0410 0560
0000 0380 0380 0430 0570
0200 0390 0400 0450 0600
0400 0400 0420 0470 0630
0600 0360 0380 0440 0610
0800 0640 0680 0820 1210
= AR

4735 kHz, 19-12, 0800 UTC
VVV VVV PROMRCh = 19 12 =
1000 0940 1000 1190 1720
1200 1040 1100 1280 1840
1400 1000 1050 1220 1720
1600 0950 1000 1700 1180
1800 0600 0630 0730 1020
2000 0420 0430 0510 0730
2200 0350 0360 0410 0560
0000 0380 0380 0430 0570
0200 0390 0400 0450 0600
0400 0400 0420 0470 0630
0600 0360 0380 0440 0610
0800 0640 0680 0820 1210
= ABV
VVV VVV PROMRCh = 19 12 =
1000 0940 1000 1190 1720
1200 1040 1100 1280 1840
1400 1000 1050 1220 1720
1600 0950 1000 1700 1180
1800 0600 0630 0730 1020
2000 0420 0430 0510 0730
2200 0350 0360 0410 0560
0000 0380 0380 0430 0570
0200 0390 0400 0450 0600
0400 0400 0420 0470 0630
0600 0360 0380 0440 0610
0800 0640 0680 0820 1210
= AR

4375 kHz, 21-12, 0800 UTC

VVV VVV PROMRCh = 21 12 =
 1000 0940 1000 1180 1720
 1200 1030 1080 1270 1830
 1400 0990 1030 1200 1700
 1600 0920 0970 1150 1660
 1800 0580 0610 0710 0990
 2000 0410 0430 0500 0700
 2200 0350 0360 0410 0550
 0000 0370 0380 0430 0570
 0200 0390 0400 0440 0590
 0400 0400 0410 0470 0630
 0600 0360 0380 0440 0610
 0800 0620 0660 0800 1180
 = ABV
 VVV VVV PROMRCh = 21 12 =
 1000 0940 1000 1180 1720
 1200 1030 1080 1270 1830
 1400 0990 1030 1200 1700
 1600 0920 0970 1150 1660
 1800 0580 0610 0710 0990
 2000 0410 0430 0500 0700
 2200 0350 0360 0410 0550
 0000 0370 0380 0430 0570
 0200 0390 0400 0440 0590
 0400 0400 0410 0470 0630
 0600 0360 0380 0440 0610
 0800 0620 0660 0800 1180
 = AR

4735 kHz, 23-12, 0802 UTC

VVV VVV PROMRCh = 23 12 =
 1000 0930 0980 1170 1700
 1200 1000 1060 1250 1790
 1400 0970 1010 1180 1680
 1600 0900 0950 1120 1630
 1800 0580 0610 0700 0990
 2000 0410 0430 0500 0710
 2200 0350 0360 0400 0550
 0000 0370 0380 0430 0570
 0200 0390 0390 0440 0590
 0400 0400 0410 0460 0630
 0600 0360 0380 0430 0610
 0800 0610 0650 0790 1170
 = ABV =
 VVV VVV PROMRCh = 23 12 =
 1000 0930 0980 1170 1700
 1200 1000 1060 1250 1790 14
 EEEEEEE =
 1200 1000 1060 1250 14
 EEEEEEE =
 1200 1000 1060 1250 1790
 1400 0970 1010 1180 1680
 1600 0900 0950 1120 1630
 1800 0580 0610 0700 0990
 2000 0410 0430 0500 0710
 2200 0350 0360 0400 0550
 0000 0370 0380 0430 0570
 0200 0390 0390 0440 0590
 0400 0400 0410 0460 0630
 0600 0360 0380 0430 0610
 0800 0610 0650 0790 1170
 = AR

4735 kHz, 24-12, 0801 UTC

VVV VVV PROMRCh = 24 12 =
 1000 0920 0980 1160 1700
 1200 0990 1050 1240 1790
 1400 0960 1000 1170 1660
 1600 0880 0930 1100 1610
 1800 0570 0600 0690 0980
 2000 0400 0420 0500 0700
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0630
 0600 0360 0370 0430 0600
 0800 0610 0650 0780 1160
 = ABV
 VVV VVV PROMRCh = 24 12 =
 1000 0920 0980 1160 1700
 1200 0990 1050 1240 1790
 1400 0960 1000 1170 1660
 1600 0880 0930 1100 1610
 1800 0570 0600 0690 0980
 2000 0400 0420 0500 0700
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0630
 0600 0360 0370 0430 0600
 0800 0610 0650 0780 1160
 = AR

4735 kHz, 25-12, 0800 UTC

VVV VVV PROMRCh = 25 12 =
 1000 0920 0970 1160 1680
 1200 0980 1040 1230 1780
 1400 0950 0990 1160 1650
 1600 0870 0920 1090 1590
 1800 0550 0580 0680 0960
 2000 0400 0420 0490 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0630
 0600 0350 0370 0430 0600 060
 EEEEE
 0800 0600 0640 0780 1150
 = ABV =
 VVV VVV PROMRCh = 25 12 =
 1000 0920 0970 1160 1680
 1200 0980 1040 1230 1780
 1400 0950 0990 1160 1650
 1600 0870 0920 1090 1590
 1800 0550 0580 0680 0960
 2000 0400 0420 0490 0690
 2200 0340 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0630
 0600 0350 0370 0430 0600
 0800 0600 0640 0780 1150
 = AR

4735 kHz, 26-12, 0800 UTC

VVV VVV PROMRCh = 26 12 =
 1000 0920 0970 1150 1680
 1200 0970 1030 1220 1760
 1400 0950 1000 1160 1650
 1600 0870 0920 1090 1590
 1800 0550 0580 0670 0940
 2000 0390 0410 0480 0680
 2200 0340 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0620
 0600 0350 0370 0430 0600
 0800 0590 0640 0770 1140
 = ABV
 VVV VVV PROMRCh = 26 12 =
 1000 0920 0970 1150 1680
 1200 0970 1030 1220 1760
 1400 0950 1000 1160 1650
 1600 0870 0920 1090 1590
 1800 0550 0580 0670 0940
 2000 0390 0410 0480 0680
 2200 0340 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0620
 0600 0350 0370 0430 0600
 0800 0590 0640 0770 1140
 = AR

4735 kHz, 27-12, 0800 UTC

VVV VVV PROMRCh = 27 12 =
 1000 0910 0970 1150 1680
 1200 0970 1030 1210 1750
 1400 0950 0990 1160 1650
 1600 0860 0910 1080 1570
 1800 0540 0570 0670 0940
 2000 0390 0410 0480 0680
 2200 0340 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0620
 0600 0350 0370 0430 0600
 0800 0590 0630 0770 1140
 = ABV
 VVV VVV PROMRCh = 27 12 =
 1000 0910 0970 1150 1680
 1200 0970 1030 1210 1750
 1400 0950 0990 1160 1650
 1600 0860 0910 1080 1570
 1800 0540 0570 0670 0940
 2000 0390 0410 0480 0680
 2200 0340 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0620
 0600 0350 0370 0430 0600
 0800 0590 0630 0770 1140
 = AR

4735 kHz, 28-12, 0800 UTC

VVV VVV PROMRCh = 28 12 =
 1000 0910 0970 1150 1680
 1200 0970 1020 1210 1750
 1400 0940 0990 1160 1650
 1600 0860 0910 1080 1580
 1800 0540 0570 0660 0930
 2000 0390 0410 0480 0680
 2200 0340 0350 0390 0540
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0580
 0400 0390 0400 0460 0620
 0600 0350 0370 0430 0600
 0800 0590 0630 0770 1140
 = ABV
 VVV VVV PROMRCh = 28 12 =
 1000 0910 0970 1150 1680
 1200 0970 1020 1210 1750
 1400 0940 0990 1160 1650
 1600 0860 0910 1080 1580
 1800 0540 0570 0660 0930
 2000 0390 0410 0480 0680
 2200 0340 0350 0390 0540
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0580
 0400 0390 0400 0460 0620
 0600 0350 0370 0430 0600
 0800 0590 0630 0770 1140
 = AR

4735 kHz, 29-12, 0800 UTC

VVV VVV PROMRCh = 29 12 =
 1000 0910 0970 1160 1680
 1200 0970 1020 1210 1750
 1400 0950 1000 1160 1660
 1600 0860 0910 1090 1590
 1800 0540 0570 0660 0930
 2000 0390 0410 0480 0680
 2200 0340 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0380 0490 0440 0580
 0400 0390 0400 0460 0620
 0600 0350 0370 0430 0600
 0800 0590 0530 04 EEEEE = 08 =
 0800 0590 0630 0760 1130
 = ABV =
 VVV VVV PROMRCh = 29 12 =
 1000 0910 0970 1160 1680
 1200 0970 1020 1210 1750
 1400 0950 1000 1160 1660
 1600 0860 0910 1090 1590
 1800 0540 0570 0660 0930
 2000 0390 0410 0480 0680
 2200 0340 0350 0400 0540
 0000 0370 0380 0420 0570
 0200 0380 0490 0440 0580
 0400 0390 0400 0460 0620
 0600 03F EEEEE
 0600 0350 0370 0430 0600
 0800 0590 0630 0760 1130
 = A (no R)

4735 kHz, 30-12, 0800 UTC

VVV VVV PROMRCh = 30 12 =
 1000 0940 1000 1180 1700
 1200 0990 1040 1230 1770
 1400 0970 1020 1180 1680
 1600 0880 0930 1100 1590
 1800 0550 0580 0670 0940
 2000 0390 0410 0480 0680
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0630
 0600 0350 0370 0430 0600
 0800 0590 0630 0770 1130
 = ABV
 VVV VVV PROMRCh = 30 12 =
 1000 0940 1000 1180 1700
 1200 0990 1040 1230 1770
 1400 0970 1020 1180 1680
 1600 0880 0930 1100 1590
 1800 0550 0580 0670 0940
 2000 0390 0410 0480 0680
 2200 0340 0350 0400 0540
 0000 0370 0380 0430 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0630
 0600 0350 0370 0430 0600
 0800 0590 0630 0770 1130
 = AR

4735 kHz, 31-12, 0759 UTC

VVV VVV PROMRCh = 31 12 =
 1000 0920 0970 1160 1680
 1200 0960 1020 1200 1740
 1400 0950 1000 1160 1660
 1600 0860 0910 1080 1580
 1800 0540 0560 0650 0920
 2000 0380 0400 0470 0670
 2200 0340 0350 0390 0540
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0620
 0600 0350 0370 0430 0600
 0800 0590 0630 0760 1130
 = ABV
 VVV VVV PROMRCh = 31 12 =
 1000 0920 0970 1160 1680
 1200 0960 1020 1200 1740
 1400 0950 1000 1160 1660
 1600 0860 0910 1080 1580
 1800 0540 0560 0650 0920
 2000 0380 0400 0470 0670
 2200 0340 0350 0390 0540
 0000 0370 0380 0420 0570
 0200 0380 0390 0440 0590
 0400 0390 0410 0460 0620
 0600 0350 0370 0430 0600
 0800 0590 0630 0760 1130
 = AR

UM10 - UTC, 10-minutes net

JPL searched for UM10 and found a few slots. These stations have been on the air for many years, but we still don't know who they are. They are mainly audible in the Far East and sometimes in Alaska and British Columbia. The location is probably somewhere in Asian Russia or China. The broadcasts last 10 minutes and consist only of the callsign. In the past, sporadic short messages have been heard.

Current slots. Start and end times between brackets.

4320 kHz, 11-12, 1719 UTC	JZZN (1710-1720)
4310 kHz, 18-12, 1249 UTC	JZZN (1240-1250)
3531//4310 kHz, 18-12, 1719 UTC	JZZN (1710-1720)
3531//4310 kHz, 19-12, 1745 UTC	JZZN (1740-1750)
4310 kHz, 21-12, 1212 UTC	JZZN (1210-1220)
4310 kHz, 22-12, 1722 UTC	JZZN (1710-1720)
4310 kHz, 26-12, 1818 UTC	JZZN (1718-1720)
4310 kHz, 26-12, 1750 UTC	JZZN (1740-1750)
3531//4310 kHz, 28-12, 1744 UTC	JZZN (1740-1750)

3975 kHz, 18-12, 1714 UTC	VI4T (1705-1715)
3250//3975 kHz, 19-12, 1806 UTC	V14T (1805-1815)
3250//3975 kHz, 22-12, 1811 UTC	V14T (1805-1815)
3250//3975 kHz, 26-12, 1814 UTC	V14T (1805-1815)
3975 kHz, 27-12, 1737 UTC	V14T (1735-1745)
3250//3975 kHz, 28-12, 1805 UTC	VI4T (1805-1815)

DIGITAL MODES

F01

F01 – FSK 200/500 Mon-Fri schedule

12164/10336/8016 kHz, 01-12, 1015/1025/1035 UTC

60568 08720 38099 02661 11453 98731 43743 96975 54420 75128
56483 29195 31844 12552 38371 28795 62180 33619 29222 03510
02429 90014 95844 04265 66569 23383 80212 84741 17125 91922
76233 04008 72069 73660 89828 45654 94246 82307 62000 51867
55504 56663 59568 95884 92714 09484 63276 41269 97881 46762
07950 61430 09518 93356 54384 17845 97474 85907 97666 20398
58422 18970 41609 18297 64159 55315 93978 94988 29936 36319
62223 65514 94999 53396 54364 99746 32515 66400 14762 19942
31086 79934 49420 46047 15029 13515 20543 87196 95617 26514
15006 02839 70466 83827 16444 81932 13242 73204 35644 13640
20902 10170 78921 47964 10637 91486 59171 69773 83704 83092
79288 34627 98351 53435 42633 39867 18998 88172 70236 29397
33886 47143 29433 55589 58369 49568 03607 46760 66033 98408
57733 53646 14837 79822 79416 73326 60462 98657 00100 74019
74054 35916 26133 69198 06552 39128 34403 14461 66774 81576
12193 25588 05481 51300 45967 41234 22561 55829 88778 78684
39563 53571 60966 56109 04747 47804 63844 79771 22831 04192
11072 19600 26647 77788 07382 21592 32871 60438 29357 30459
49021 84533 87951 20970 23916 44049 77437 61421 58779 18808
40454 57673 21172 12901 03875 51193 28948 43204 65149 69533
96412 38938 33825 52695 59879 38189 57934 03809 24808 92353
89932 37559 01711 14415 71867 24810 23016 32019 44485 56861
58077 31267 09938 77758 68514 02165 02806 58122 71072 21675
49092 08908 00190 35305 17906 58547 87459 23162 95504 41911
00172 61424 36382 74515 06131 15154 71105 10435 56919 23402
75564 07326 06820 62529 31350 47033 09556 98694 31915 85187
60062 65430 14244 28255 73457 27265 20677 61460 18408 15311
20616 76021 47085 45762 46770 69150 88879 57245 25643 15235
00077 27949 06945 31652 86683 58482 21620 87651 42575 31385
23175 29737 70173 83247 91989 21996 75820 50354 07310 24799
57059 73803 16607 60328 23984 75044 56972 38345 21869 37748
08271 40662 47252 56978 82703 87737 74658 41572 80493 35834
36164 80692 66366 78187 20973 10466 46525 48614 87200 41668
50792 50995 03059 34370 49626 63080 59614 30507 60677 88044
22324 80282 24592 52233 13520 23367 54733 72542 43047 10813
90524 41860 29227 78636 09086 06013 77341 08988 74860 30656
07829 39866 31921 81539 51365 09303 68637 66590 53037 44951
09388 13256 52780 35032 13022 79523 34269 41556 82739 22089
59464 41777 17084 70072 30979 08797 56740 77752 49472 67276
06817 54731 58249 85171 39308 96985 92249 87456 05414 67233
73625 02740 12416 98048 21087 78741 44789 16175 65200 27549
34238 11464 86836 86600 08351 98878 20949 06320 72549 47007
92870 96421 00000 +++++ +++++ +++++

12164/10336/8016 kHz, 02-12, 1015/1025/1035 UTC

64117 83527 88367 89730 98404 56259 68953 29530 42968 13055
53593 09867 99386 14037 79020 69953 16433 41616 25031 22517
01466 26212 86865 34454 17470 00205 88701 13063 07928 91042
92954 71261 16713 89448 85053 70264 95183 53666 38409 63129
13681 35668 89230 87622 19604 40284 75904 81835 09247 53173
22602 20998 05611 98583 71818 98916 59340 12827 95528 02479
15008 44425 39631 52663 09911 16845 81393 10495 97571 14770
04569 71365 13142 79849 21870 96189 22882 26855 99506 52799
24909 16179 63448 66035 93410 43630 92118 99970 83490 97089

00000

04570 63969 11115 04354 16908 30537 73329 87194 14462 57619
18080 21625 59832 49689 00142 18513 67297 52829 98332 89007
52933 24055 55908 15288 32092 37462 05048 41711 18932 00629
42598 22326 07682 79706 49291 85652 40341 56638 69584 02701
90486 66948 94356 69136 17874 91530 13604 37557 73542 00885
31353 60789 60081 75222 59968 32170 76770 48895 36037 33733
04260 52582 25027 28244 08500 51654 06902 56019 68591 04183
59876 22471 58245 87001 84511 87306 35551 63285 35320 91332
20726 90057 52088 81789 66546 89086 08083 22159 51140 29593
17348 98091 00000 +++++ +++++

12164/10336/8016 kHz, 03-12, 1015/1025/1035 UTC

No transmissions

12164/10336/8016 kHz, 04-12, 1015/1025/1035 UTC

No transmissions

12164/10336/8016 kHz, 05-12, 1015/1025/1035 UTC

No transmissions

12164/10336/8016 kHz, 08-12, 1015/1025/1035 UTC

55542 33225 84127 51883 85913 02469 92963 87564 13910 50828
78903 49204 37973 31234 85188 20963 93630 69934 61103 14466
40064 43075 63625 70824 38954 14708 66206 98298 11560 65908
23129 87796 84951 69698 62851 73388 63341 91451 08807 30030
85453 19483 51077 25682 53857 55493 17382 70008 47225 19570
16822 26849 51423 49421 54813 82642 70398 98543 42656 87997
02781 62993 50161 14600 95149 91465 74783 94628 07898 58359
25703 34892 54628 04520 46276 22850 01028 75338 23307 66715
34142 10914 56572 36837 38011 67940 87039 00529 36579 78027
07213 67546 89831 72136 02041 88396 54093 25809 93837 72670
42421 04890 89637 19572 46033 16424 54429 77854 02713 94419
58712 77329 23118 75156 73799 99153 10946 41734 13319 77059
37873 42553 44335 46746 59224 13397 16550 85593 81302 57825
82990 09895 16314 65551 10656 21800 85826 73495 04529 23154
58705 99199 93410 38413 34455 01298 51012 13835 07913 46719
50728 85121 76221 89323 77548 30713 74030 89640 45531 52906
47858 30421 94280 53994 05541 07667 62867 99621 01731 01845
64627 86519 45360 58953 11277 56836 40015 36152 59779 26229
93155 91623 80408 17917 55127 23356 69437 19874 73889 86549
54890 07362 76403 44316 68808 97974 12628 31370 84442 31393
23031 35394 41843 91034 15596 25767 10247 09786 63223 84346
60733 27000 57484 17987 47562 88957 79657 57481 21650 09968
74996 72617 24596 36304 41147 58044 36737 80153 66664 69607
77616 15785 80573 15880 82354 55096 98891 34541 02321 44758
79068 08320 03569 52120 18267 00164 61455 32070 56440 12340
74895 92047 70115 99151 48679 97384 67855 87950 17293 84161
23303 88138 08685 71777 06769 92850 71403 92410 01290 02989
13561 79564 14099 28323 27043 82876 19440 45318 95413 01392
93665 16388 08948 52478 28569 00269 35232 18572 33862 08192
18766 38941 64757 85535 08006 38666 35588 23667 33294 12001
05396 31634 84090 02327 46429 22421 58976 45868 31496 93428
86828 71374 01088 05891 42643 72936 96243 92901 06412 98142
68060 50739 38505 18748 99804 93182 70002 76058 02567 73502
31393 18200 70376 03815 68098 71479 05735 26489 16251 13007
51494 17285 37152 36781 90022 24930 33879 30413 95588 76793
98435 04690 50906 05375 62925 43150 63784 75275 53157 63872
44802 15342 68129 10654 31962 85680 33833 15771 73251 34216
04811 01517 03056 22492 11900 12686 73348 25396 79614 97208
25614 34499 61584 77115 14420 19694 67502 77027 18599 28825
80017 02342 00954 29986 84995 84319 02445 26194 63607 34261

81781 99401 00000 +++++ +++++

12164/10336/8016 kHz, 09-12, 1015/1025/1035 UTC

57195 62306 24281 29754 27627 57051 67094 70025 63807 31115
98441 07970 39946 45758 50670 10578 92244 63208 16054 19855
08927 90579 35114 38190 75840 01616 74104 59528 51058 03458
27597 26026 66926 40618 07090 14889 82983 53347 01605 85069
38204 32585 21186 38514 75990 38678 59244 75652 40358 76058
34691 49809 66752 41064 99794 50229 15925 85089 24694 68405
24323 60263 94513 27395 69410 39823 80010 78808 73377 30393
67693 97163 93656 18337 60359 26295 73703 17387 83964 57490
52459 09724 61794 44065 55946 97706 41848 82042 19433 01089
00000

50191 05600 74084 29324 72543 63513 16595 17431 45055 56977
93414 23930 64077 57266 83551 32024 61410 77366 96824 90288
52372 31045 62989 27074 51536 30310 12768 24373 85839 69681
92947 62104 59733 70713 82763 68740 52082 85213 03729 39223
49475 80587 40110 06096 45667 55750 12241 74803 61803 61042
69846 59087 67148 20586 97580 77411 04979 80525 49959 96367
53343 31573 57868 31986 75376 79319 73848 44895 38849 60733
48334 90269 09640 30281 54036 08492 48825 64128 00658 67487
68071 55831 07129 92644 23010 01978 23549 45277 49290 01203
20024 35560 70998 15023 84585 80868 36122 63926 97376 45472
58760 02101 00000 +++++

12164/10336/8016 kHz, 10-12, 1015/1025/1035 UTC

38848 75006 00906 58220 20240 14307 63324 20899 91516 85038
13225 74161 89439 96659 01193 62426 68491 58575 34185 95153
24383 66405 50639 41175 59454 97739 42960 59840 32152 28284
82040 42420 57781 43702 35396 21931 52717 32741 00568 56670
39252 73569 32501 90378 53280 47617 04587 71654 22007 93515
98037 21875 03855 36066 75308 20568 07768 51514 50226 74841
34104 40743 97681 86564 04288 46301 82551 15737 71427 74229
12549 63495 29070 06599 44685 23179 60295 15716 00038 72903
94324 15922 66501 08072 62837 13930 94215 37268 73182 43631
13357 89965 40674 96314 28982 09492 47153 82235 72608 29678
18007 84461 15222 58646 34837 90952 71393 18158 25952 15789
49203 11964 01887 45508 25647 21605 28127 71468 52222 53079
52220 94192 20376 82837 27486 10612 41505 76522 00476 20167
21189 78907 54407 10692 32356 98459 25729 10015 17059 34969
36027 14229 71553 23686 06449 28550 94358 94394 46829 81717
02002 68868 36714 99867 42123 45143 40473 50808 58627 42039
23669 94653 88581 02378 62891 01735 95527 78332 66236 23735
68924 47331 46614 28992 44371 31983 15079 37887 24333 22425
86363 19274 04041 24565 13811 33886 32246 82633 95884 35644
61538 49486 21456 66817 67889 03105 46034 07969 44132 32725
16161 68624 97046 43027 84115 29599 02751 49831 80156 72921
00080 65742 34463 60297 26636 99160 65967 46040 27209 15119
80280 35418 89239 31370 43872 24339 85030 48165 26726 81336
25372 35161 30618 57757 54293 23897 45248 37131 39601 79269
99375 59618 38920 48456 99170 82509 45899 10709 70956 62685
46285 76475 50531 71992 38544 09263 86269 81466 98729 68699
48165 75339 94264 98226 60034 80769 76345 05849 97039 24231
05642 11399 15741 50503 90989 58736 08845 65195 45754 16327
01860 86738 91562 14640 33825 18794 64079 93794 89307 79007
00530 59910 73865 45045 13641 73567 50149 03859 81697 18850
76833 15106 09406 26383 17570 24667 39234 48819 12154 89202
17936 12195 27075 97679 47941 91380 27657 00810 78283 84662
38960 84330 14784 81063 87653 47080 54141 51896 42016 69787
71656 06931 92280 85524 17239 93447 38493 87759 99412 34999
78080 36940 61994 33552 10310 51552 83133 83450 99837 94590
51409 70621 66515 91371 98655 55485 93667 39638 94220 62984

71999 97879 30339 28186 21351 62819 53297 70881 57455 71996
20097 97634 95918 92379 85287 54705 10586 80959 47665 80283
88489 28248 11519 29492 48572 20625 42124 70566 16357 82469
20147 75668 71776 84020 24678 54769 12320 25884 99552 06036
98708 36155 82672 81149 75275 41057 02991 89019 82235 95070
74871 86297 02049 81458 44490 28158 07041 03417 00000 +++++

12164/10336/8016 kHz, 11-12, 1015/1025/1035 UTC

93209 08086 83362 59264 36576 38266 77856 33967 42645 38312
61267 40259 87008 58136 17898 48368 39335 13732 40970 65680
17977 78961 85323 69010 95065 29791 82330 47903 56785 64403
34197 44916 48507 47620 29855 03801 59477 53086 49616 61540
26740 01643 50786 45172 62988 19329 51427 59325 38027 63448
54440 75427 68539 90143 79184 58503 95837 61908 92787 92512
56292 18479 58361 90153 74122 59542 42294 04067 00000

75180 54633 58954 73478 23925 56306 99178 44359 79354 99820
54733 42814 28866 02601 89964 51696 67262 16374 27054 74653
51533 94810 52989 14765 12763 46820 54763 94277 73600 17668
93735 70162 44747 65115 55089 25140 98865 22775 33320 38894
45385 67849 39704 69144 54617 35453 42668 97268 04618 46713
77019 18167 49256 42816 82945 79046 30896 42207 60749 96826
86158 63115 52238 08838 18176 78602 84710 36514 33795 96319
38483 66755 69158 80152 23880 80660 52098 55956 78645 84305
74785 68552 21694 21264 75076 82191 24150 71545 49978 41651
83609 66659 49687 36173 12562 75471 25631 33413 76906 40547
30948 05101 00000 +++++

12164/10336/8016 kHz, 12-12, 1015/1025/1035 UTC

00000 +++++ +++++

12164/10336/8016 kHz, 15-12, 1015/1025/1035 UTC

10015 23245 11865 25532 62849 00027 92311 77949 13270 80801
74621 56963 22104 76135 18720 72710 67655 90604 87803 17721
70257 89325 99706 17467 13799 49333 02577 02507 75160 50524
48306 69388 97504 85826 62155 22511 68339 95299 32004 14141
88316 53853 65669 24743 41681 67256 89727 50848 04321 56142
88277 92618 50356 32687 05085 58307 43195 99650 57539 27801
22005 26470 35864 42439 19523 82088 86028 13278 72163 29215
99769 65009 08340 09692 60203 57706 25946 75666 16416 53587
94941 46248 85520 20992 45969 94347 05572 92749 30941 93368
87807 21129 66539 78461 41647 96552 96566 02010 70872 22283
34075 88038 64443 62235 69224 15249 30378 04132 53793 83334
46138 05180 98296 42308 23955 12446 42633 89480 14532 75129
86201 63825 97568 90925 88438 92377 32537 53642 75693 68380
68141 94290 15390 65851 33923 32806 43419 20267 62413 82611
55679 30045 15307 75196 99724 58516 12063 96899 27443 41071
84395 55092 94707 27170 05073 15939 18941 11907 64477 80931
30523 36804 93350 94374 78986 64544 55168 99024 79935 57304
56589 82049 13624 13393 49397 78516 11128 41884 22391 24587
89060 79917 06654 77596 18753 82365 42632 45229 40847 38549
82477 90955 61239 95696 26076 07925 89304 93823 14203 78506
04347 41727 27249 61661 61206 88784 62949 75333 70969 72232
91549 66050 17707 44632 11861 82912 97190 11187 56619 98169
88518 31620 20607 41566 94588 66285 09960 40641 12350 71204
36113 84177 18790 71718 02799 50975 83573 69441 59562 71151
44277 62196 20209 12148 05166 81636 69634 06624 45439 78221
07474 64443 47882 08246 01996 35922 83877 02611 52703 18537
15686 22017 85044 24279 01964 28271 25707 49833 17430 26395
31902 16790 22640 57221 73103 74048 44786 45168 88653 79627
55477 30868 69692 04050 56425 43364 38842 22499 08978 91525
26072 87938 68442 79403 64210 02362 09129 75191 52503 28390
51046 88491 61693 08378 24211 35568 79028 83234 31477 97273

16659 28131 95849 99340 31840 47297 03197 69728 32401 95083
76321 52696 65894 15483 41311 84318 15882 17291 72108 59097
53782 27110 24252 42389 19725 87358 93702 08308 30844 91499
61711 07815 40455 73655 11660 96663 96538 94809 28811 77901
72992 92774 18906 38600 72059 88120 06544 85528 21395 63244
99290 09421 14199 56773 28443 32556 65847 40488 02393 19324
85471 70951 33521 54465 85908 33035 24575 18675 80477 17522
25443 16259 40000 99984 96286 34529 08520 13117 37956 39615
01147 29712 75622 38406 32471 98470 06576 61277 48975 99833
48121 06401 00000 +++++ +++++

12164/10336/8016 kHz, 16-12, 1015/1025/1035 UTC

26852 08284 78481 01512 86190 28731 19696 03566 81729 59635
74545 50846 40227 47265 11750 48841 73570 48300 75913 01607
82189 40642 10324 69498 62468 54239 79844 27396 16609 14130
54844 28095 88357 12863 42100 00575 73068 54520 73609 37804
75503 37492 89248 53792 13828 68218 74220 14564 93245 23071
37220 72750 97682 00572 40263 60476 72991 31126 16111 20237
00086 36464 34233 78454 81457 55979 01238 91391 89513 82145
06719 18122 50160 72206 50444 00234 60083 28320 11832 52961
61158 63350 47652 97433 20422 94484 28884 88712 89049 31880
52671 19336 38779 54509 90317 03020 99205 90403 57249 68236
44398 43478 15888 16333 02270 34127 47377 23899 85132 45773
53087 07111 00000

92796 69826 30908 90338 54285 16517 07761 27430 83074 73129
34138 75781 06697 98103 81117 60204 71240 07114 28227 59063
47230 21212 97880 45247 78177 28338 56717 61593 01496 06662
26020 41740 96475 83163 68402 12310 38981 25916 42958 37389
67587 93493 46045 91228 90824 89943 79910 70099 90221 98766
16332 79251 98841 94337 47466 55906 59991 54201 41090 14221
95793 20687 42427 23159 40313 85282 89743 53221 16916 94187
35896 52945 64558 98509 93028 41140 42689 97512 42605 25773
69447 48384 77949 08083 00000 +++++ +++++

12164/10336/8016 kHz, 17-12, 1015/1025/1035 UTC

10175 14672 39394 76470 65516 35830 71652 91077 10114 41527
38175 36438 13445 04795 07421 46323 76767 68923 55777 77360
31633 08735 17682 78363 80284 01328 83094 96474 20132 17234
97031 93569 19511 67921 40833 71345 36882 70583 99859 28543
00693 16151 47292 98733 92052 51464 98750 42107 97443 11540
17382 89710 23626 62877 74134 63551 91949 43735 92896 21031
54234 12320 35179 97122 97434 38817 04043 42745 29246 02218
71944 82764 61870 77852 62207 42066 36101 26604 38779 13117
52936 21700 83986 63490 04896 74050 68966 06750 24231 42062
46453 85163 90220 36846 20627 37661 62733 58793 73686 51495
34246 26423 53863 21016 17512 83455 54538 62029 11056 95044
39162 55140 09690 69116 91663 16559 52237 63728 97038 19763
23652 66412 81790 16496 53714 56425 68937 30507 79505 85845
27243 22487 63831 40455 19382 49632 86794 66345 78716 68278
52696 73181 69370 53029 79458 50068 09298 30837 62758 54943
61024 53457 32044 63453 19745 56716 40649 88232 53489 80041
57163 04531 75003 44672 50266 43128 50081 14012 84208 36471
71984 84531 67112 28970 95686 80695 19311 87392 38586 52309
53876 70093 71409 97761 86553 56417 63967 61574 17273 01007
05469 79709 50430 25971 60071 71067 46127 34821 35352 98613
19555 80344 54400 48571 30709 81929 86205 01117 31627 30493
14037 91021 63325 41939 46492 81667 19641 45094 00919 00881
20147 15048 13880 12018 59343 87848 58361 18750 24300 17475
72399 26963 97948 61039 28831 12239 90202 03143 00837 66330
64099 55334 02973 21083 49148 91602 12383 73230 59074 05840
99874 58510 56142 02218 25535 48538 29251 54408 78600 68858
77987 94592 66240 61643 19818 18191 80959 41441 62622 15252

01298 17439 09734 64441 05527 80665 89703 50567 03007 79565
27939 91572 12923 32401 02445 85942 45061 49900 50816 16460
62331 66597 20702 71241 29705 04303 80902 67998 79277 16145
35307 92463 46124 84604 06849 86904 54646 72001 83658 49680
60097 46853 44631 31771 74962 34552 06552 41210 34897 65801
60012 91373 83905 21231 86268 54048 83434 95653 72253 03224
75091 30383 65913 60548 51658 87054 39073 78375 16092 61389
49997 21353 33205 60334 22858 32478 03707 91025 86273 94569
15295 34997 38126 23081 50489 06087 28827 51204 55884 15467
80236 93189 02522 92247 82406 96836 92059 33077 35350 21069
88433 79185 28013 99555 79688 44313 71641 76299 99679 41945
29733 24135 64318 85307 11756 82079 02061 58554 22827 72462
83321 82578 86528 83783 78497 23894 83065 30223 99928 20022
69936 23762 03057 19814 77312 19825 64723 62157 95314 22402
46219 41499 95363 59581 17843 33616 52815 65426 11410 80088
63032 29141 09825 54887 68119 97452 02764 61541 36481 09429
00000 +++++

12164/10336/8016 kHz, 18-12, 1015/1025/1035 UTC

Only one message (#11) was sent vs the usual two. Message 12 was sent on 22-12, so message 11 is missing.

09916 20593 73644 38850 97523 43809 13196 41722 76446 56053
36682 41095 36039 32780 39813 82675 15643 99774 71908 89985
92521 16573 71730 37287 15204 86925 38575 98767 18174 76004
37048 66184 78849 39036 58976 52156 02779 91043 90876 21284
48000 72393 60441 16293 24502 89830 60451 71379 29710 37687
73578 29956 05953 28957 46499 08976 30841 90914 86764 77025
76482 04985 80858 38377 98496 95523 56889 40187 40741 97223
40342 45021 66701 55813 76344 35902 53482 41750 16860 46065
09329 81581 96271 30608 00621 36682 43779 22222 99282 84025
06047 38190 86531 78705 78548 30848 73924 02885 69031 98683
27609 30845 41560 00276 06756 64848 14555 38241 52069 21485
11272 05402 85346 73194 86166 10337 06005 10117 00000 00000
00000 00000 00000 00000 +++++ +++++

12164/10336/8016 kHz, 19-12, 1015/1025/1035 UTC

00000 +++++ +++++

12164/10336/8016 kHz, 22-12, 1015/1025/1035 UTC

82714 69261 69500 51323 04006 12546 42238 57411 50658 47853
33989 17131 78603 56871 38324 98998 08718 10458 16929 23428
78010 43340 66859 67754 08490 17198 29685 80734 23393 20555
84728 17443 65465 78935 93560 30536 96981 73698 87959 78784
86184 93014 18515 38837 09849 63398 06058 31141 26631 35251
63120 95962 00927 20844 77591 80441 81881 08177 75775 22616
67285 99156 07029 43363 07003 45530 17166 82181 25653 81003
02824 37762 69204 72998 63972 99280 05192 42466 96751 79351
31231 25212 93835 84575 71519 73157 44496 84631 66016 18984
51566 65826 81983 52589 07483 80070 02579 82803 96602 25191
72185 82789 15968 17534 03170 42578 31725 42785 73751 77168
13372 95960 71673 63627 13018 46482 63360 05638 81866 89297
93254 48921 41076 67971 43012 95975 49213 80679 05256 93573
33469 05063 51556 91444 76842 02854 99348 95589 78451 90237
07459 64661 29196 84862 54929 22849 69923 65457 82833 87706
24311 04976 03770 36355 23641 63218 08710 58503 65654 49865
25912 69725 74679 93851 11557 83423 55210 80037 76821 64930
56141 39085 81058 16162 87816 01515 45782 64290 59118 51841
69137 52849 26748 43761 45547 58717 73905 62296 20225 83422
60555 43864 33235 92200 12455 90181 32790 99240 41149 36964
62478 22560 12095 63341 52105 56952 03137 52935 66826 38428
20485 42537 94278 98610 64409 19314 74385 32497 61828 52498
01521 28045 07975 70476 53726 31009 84334 19233 28671 43473
45045 63074 91026 79503 88929 13579 60968 26374 59373 97706
98469 84799 39214 01007 63081 86599 32840 46857 53896 13249

52680 97679 59372 63744 52285 89066 71701 45220 73166 32753
45427 84761 97598 49371 04981 85844 24570 16933 30830 77835
11055 45972 78932 32007 45813 17279 13178 42488 47896 43174
55502 95590 07046 38257 83365 75958 08173 10560 29285 82964
07112 09050 62101 55809 49825 88420 54672 30731 52258 77104
67681 78802 83022 59438 04247 97713 16099 07942 15017 56010
45748 26613 58439 13201 80819 91211 45902 64186 60634 97442
26418 81439 59644 52992 90544 53380 73048 74351 98241 42375
00546 74352 60330 10807 70430 51375 28259 88645 71201 16149
71855 80961 82877 17084 49755 38821 25211 50084 02194 41990
64979 63765 20849 66900 49552 96015 75422 38302 58907 02855
01645 88048 93296 65501 80395 69441 38745 86612 62626 00591
77564 11612 19768 35202 36078 36058 24312 84255 86740 84981
90265 36995 46832 75141 28145 54668 40934 96114 94213 35466
19352 71183 38648 74086 49688 83938 82308 64362 23744 81546
76819 18401 46942 90610 27636 12405 00000 +++++

12164/10336/8016 kHz, 23-12, 1015/1025/1035 UTC

04528 40346 74323 68954 42416 19209 15245 04154 59180 45813
57007 30802 52193 62759 66303 25784 98041 88808 91011 73890
22621 38065 99873 84907 80292 84569 49202 45948 09331 08242
56342 07481 55816 83105 84552 26494 83171 93736 68997 15214
09538 90875 38546 68835 40165 22131 13052 70692 87009 98722
80817 98306 92725 84196 85915 78748 01244 16049 80059 66760
42112 96198 18722 44068 20802 11246 06166 63314 32147 68452
19100 85068 39129 58378 63629 81336 84170 13077 00000

39952 19672 07477 44776 09011 75633 44800 39982 32968 59958
13644 42848 53318 55788 83004 39831 84750 23551 64963 16027
51150 49739 02307 11996 63498 05153 03500 17411 81853 23555
79722 74955 28601 36678 63632 92921 45165 26510 14564 89921
09355 80809 39832 20181 55552 62771 86839 52826 64916 30802
85678 03620 17793 69322 46898 42568 25521 16541 44141 25852
83818 00146 36331 25504 14941 16838 09097 55286 90792 16651
40121 16188 54191 77994 18106 09996 80452 84356 70036 94366
46500 38604 76433 77837 99690 75818 79283 78221 43513 60605
12327 92814 82395 79809 08405 14095 00000 +++++ +++++ +++++

12164/10336/8016 kHz, 24-12, 1015/1025/1035 UTC

56590 07864 33748 79340 56045 47766 94742 33421 80486 82633
44791 24226 47390 31852 15857 61749 32590 78869 21542 70804
19202 09543 17572 37225 47416 54881 84264 63947 13616 80373
41906 91625 92246 89078 34967 63499 78874 30680 46119 39180
77877 33681 25958 87049 83198 02932 49392 09968 25604 96783
46434 83957 84902 46316 85755 14570 90485 23041 44597 40621
58762 48578 63267 39963 40792 62185 32850 17009 78630 49106
29448 76670 93794 76677 63451 14424 56307 33262 42953 77160
07731 37200 87273 74535 36655 07975 51510 45492 30054 16762
40806 89647 48965 58572 76094 58220 01924 13157 94765 64220
14578 86868 01357 16536 18950 52675 00034 07654 10746 30497
72308 29670 48184 75067 85083 58298 90754 63501 97245 29540
01363 99752 50719 38735 60287 78165 56935 16649 64396 73280
14648 62301 10045 48106 20037 37231 83114 98039 55030 50858
04608 72603 64788 91656 05257 42222 60287 83816 27561 02189
06934 74074 78716 31034 85156 78413 82853 45480 33904 43311
06031 19155 12993 01230 52421 57270 45241 25023 55124 44446
24325 10968 10050 07860 99288 45090 26299 62919 71662 32476
91495 33645 66109 94267 75482 64940 60547 62016 20850 68951
86674 24085 93709 72691 36858 03794 93158 59124 38287 73990
42877 18887 80368 37727 13288 54858 06265 29752 47726 06728
04548 18472 91041 87789 61870 13107 44088 51116 62620 05696
92526 27327 46486 02659 83377 01116 59864 25599 47774 18742
62052 86025 93334 43663 72170 63692 14606 02501 67737 43238

95012 88526 70845 88815 98745 14853 82874 61390 76026 34521
53669 08414 30195 69666 96138 80534 20043 16964 82194 55060
95844 21513 80976 70834 92517 36389 25305 04232 28344 10006
17286 40957 82697 68510 09020 23326 51217 85381 19345 77727
01852 55425 72549 51944 80230 15343 69994 17026 37773 78083
30594 13405 81010 73138 61064 45932 65514 09993 41909 57525
82909 06901 40055 36127 14382 52182 84097 34640 49126 90231
63067 08544 91180 49413 34677 00876 03069 54041 53979 29259
59702 87637 58372 54674 10973 99630 69882 36649 76470 72713
00681 04569 20771 93026 72752 99782 82729 90361 87668 68203
57209 40572 07387 08073 52692 47379 32032 02607 73210 45759
85581 92173 98025 94099 45398 65721 57498 47315 76557 76128
28597 28103 56881 09167 94843 83838 03646 60769 69466 79178
37884 02275 04260 67885 47215 38365 34127 75534 33159 87351
79217 20807 53850 38520 53998 91257 98106 66210 56414 82830
51781 05323 64167 75027 42334 17940 86566 83901 72567 05743
45381 60076 79458 47926 83138 23966 79023 15407 00000 +++++
+++++

12164/10336/8016 kHz, 25-12, 1015/1025/1035 UTC

06904 74389 66372 68413 61045 20364 42794 34343 65175 90270
22879 08920 15767 66448 93203 74424 46180 00439 10180 81434
26949 08167 44717 15928 20071 35147 76999 16883 85741 83892
02287 49048 64963 20724 33690 60577 86475 04151 12863 80219
71433 02034 64534 33739 34281 89697 55827 16047 00000

27269 86863 76180 75585 42307 77361 49626 69781 58960 43192
62617 08885 00125 51753 91653 48029 79618 37920 15100 73934
80538 39617 09763 81543 07162 01059 85842 42544 96315 73349
08709 07974 99159 67144 80922 12095 69313 37037 82952 69730
18269 02384 96022 84241 24031 34232 55522 08333 03909 63055
08424 24884 87414 86972 73137 39986 50191 85150 25248 05369
94913 66059 57568 12419 90103 05283 87946 24955 02785 52575
13262 42973 85933 12828 33050 14524 06645 30663 91200 37935
25955 33323 09151 21540 66277 11546 09025 93124 27352 43121
50152 76262 36687 88802 27400 75731 45399 15282 04761 39204
05405 24890 82630 87395 88895 96726 22222 29846 36040 68913
75529 17111 00000 +++++ +++++

12164/10336/8016 kHz, 26-12, 1015/1025/1035 UTC

00000 +++++ +++++

12164/10336/8016 kHz, 29-12, 1015/1025/1035 UTC

10770 34066 71291 74732 71500 43128 15022 42431 39903 58024
70618 09482 37990 50020 75436 42817 76179 25001 02821 03765
09131 71365 45327 82901 03773 68954 03115 60794 36740 44956
07213 43049 63381 87714 32328 43118 25545 54392 78896 11300
90315 33413 29056 33359 36897 47634 06239 47230 33830 09167
93056 51204 73727 61809 87182 02075 57714 72003 99899 26651
46766 54267 27024 95092 22125 42043 46865 29497 21993 39882
24938 46181 46673 17927 30091 55084 49359 34607 91752 64747
54760 98498 52974 66288 72739 05283 98967 94823 99163 10733
65814 91765 21147 25687 59035 16436 68873 43915 36717 80437
81194 38844 36876 03216 77177 90068 53740 12242 50805 25577
92657 36276 30998 90641 58292 65118 74170 79311 55817 74320
81477 89428 09781 38254 57966 87131 30333 80015 55812 91755
81510 31573 68810 17087 31250 02607 70342 29905 87833 81481
11973 11742 52449 16783 24886 34802 42545 52858 91339 87985
65678 17798 78324 13938 48535 87296 50621 43082 50819 72833
05438 35552 18684 07598 95814 66980 57412 28619 34992 19064
28012 78512 98915 60863 97432 75300 69077 31749 97077 23733
82876 61956 69309 66552 83686 91669 06627 99134 87818 74580
13204 95948 10561 76856 43489 22270 18495 07458 97529 29581

00267 40737 77730 58108 72998 17265 36726 94920 66538 33813
71046 61031 52724 58438 40283 25943 11860 31596 16415 73071
53580 39231 93013 64488 34304 68780 08990 78407 38449 84014
66579 17881 15615 79676 48257 14104 90897 01832 62261 72800
90547 44890 71423 37105 50138 61209 84982 65391 97449 44252
18074 47475 27240 71202 48585 07637 10102 15999 26063 67895
02590 68708 12353 69973 50801 22198 58670 79398 04604 12015
48781 20157 84696 20435 62990 13367 69686 80607 42605 18381
95375 41735 59588 99774 83442 81224 21069 68646 41703 74749
63397 71676 03141 60161 15452 26373 95900 56181 35862 25950
61418 21824 53843 62271 62889 67467 68342 40294 51249 53535
85159 82459 80870 37704 96758 46461 92148 56589 34426 04827
03167 52834 47494 59758 77638 83555 89293 91656 61301 71067
14538 64784 03957 81832 17815 38487 09342 44569 67886 57423
80018 43457 17469 19234 49478 47382 93194 43088 18627 61151
95432 87554 38865 09614 62667 91210 08932 90635 80104 34465
77704 57858 37214 45985 70146 19178 63878 02210 78582 61883
99844 93357 86501 40399 77167 54376 17055 87553 20319 84274
23462 35329 93675 02265 63484 56014 51043 14167 25183 59711
66925 87500 96123 09122 54221 58700 93225 37558 98026 20908
95453 81117 60249 65759 46515 60951 34700 77621 19772 76565
57368 03697 62549 18413 00000 +++++ +++++

12164/10336/8016 kHz, 30-12, 1015/1025/1035 UTC

94404 43881 72421 09891 41031 90438 04659 29965 43934 58145
11788 21767 49658 49915 34325 92646 93748 12490 26078 87100
51013 56506 98202 25832 24553 70398 32508 90998 25756 89101
68676 81087 42424 03465 95103 83859 97244 21327 98041 40796
63771 16199 48721 01489 321'0 24467 33159 91401 81549 77081
54322 41463 22139 76649 61346 52897 12717 55871 85493 95753
47264 78273 87531 64568 26949 67154 46228 39585 60000 73691
42649 26988 56598 19073 00000
42111

65400 91999 27927 08076 65725 35088 95516 30900 24820 58470
67121 38065 84763 70862 52891 88205 53151 57377 89106 91312
97883 22242 95521 14199 68233 62870 89443 69651 34364 36208
61243 12716 62495 03308 40971 92545 67900 63067 10778 33255
12919 11056 42827 42212 42187 84384 67375 69216 72247 78545
00724 64984 77757 47160 87715 12396 41449 20579 38470 28929
60066 04260 64053 63724 23427 42879 40746 37715 08831 61093
57623 00264 57979 16902 27123 00734 28609 28547 63281 98446
20081 00000 +++++ +++++

12164/10336/8016 kHz, 31-12, 1015/1025/1035 UTC

36524 30008 98672 09089 25957 05843 66032 10938 81060 13668
81821 48886 44233 88784 14123 96237 21432 33126 08326 33518
58220 64228 75710 10180 42079 95542 38786 90011 23175 09040
38044 03671 70781 06032 29830 56779 07518 47159 30010 67029
88621 17468 83134 28730 18420 77532 61771 28226 21197 86540
25702 58642 08642 08295 95672 07377 11075 36058 21380 14781
64616 97191 48383 27483 71511 23504 13635 94759 75783 98268
24301 81426 21406 15838 99581 95662 85180 14792 80196 55211
01515 70556 35247 40409 21275 58436 21114 07453 71913 22993
72102 60373 11051 14708 27516 05124 90704 79871 24832 34249
74345 14627 13689 15544 73980 19117 70357 83167 99433 12660
17385 54623 37033 95904 78110 22066 99866 70892 20722 91354
16819 54966 71558 67303 52555 49466 02334 08555 75662 49147
20977 00527 17107 03256 20768 19857 86224 64206 67471 88791
36412 84794 29134 42954 97709 49876 78253 60926 18478 53462
20999 29089 83326 57162 33162 40149 99517 90908 07542 48798
69000 81903 42438 32938 88284 22734 25947 33905 43333 14571
95746 74144 91658 46419 79054 75757 48816 96326 42452 28364

21480 65509 06259 79725 54287 81327 03142 47551 82638 30037
85656 75940 08646 05278 12396 84886 42408 83206 67444 86287
75811 60237 92815 64896 81031 14319 38570 47650 50935 75674
60294 09817 23559 17959 18628 91396 57861 05768 60538 22212
52931 59419 87007 79128 27838 22968 36846 23842 04317 46379
41295 94670 59475 17795 29127 50782 40700 06840 86917 92310
59963 04898 04178 04783 09712 73299 58045 01297 67523 35356
17204 60895 81720 73182 69737 86572 55128 15236 04593 31335
69166 25523 01342 65777 15457 30396 07939 85596 27146 43892
11144 82481 27108 77540 29317 26825 35249 45579 82262 35683
02061 01524 17805 24431 60646 67017 99800 65546 14383 38905
87255 02959 02422 85467 59244 95398 10199 67754 65323 87200
17163 46948 06111 29967 98891 63707 73736 03568 25793 00413
06843 09877 25571 62267 39819 37708 01658 38178 50964 22386
24779 27361 39265 48368 39863 42608 84472 68384 55456 26147
70164 37514 07859 39043 74490 85634 17148 10066 58273 76698
77278 54974 05164 28258 47466 02144 93536 89679 37018 85479
04808 02488 00806 90553 97865 91281 87579 64900 04309 58649
08297 28414 24160 82520 16654 44772 26770 39411 19021 39845
86576 01967 55953 78002 08413 84273 22472 32275 22061 33359
19304 09302 50723 90312 52265 14994 83113 69481 21978 71864
03848 29168 71100 23956 61817 32268 38277 90296 81247 20290
36971 52838 45110 49183 98377 89796 05594 60430 50623 90343
01308 85826 21403 11585 85914 09384 84273 21417 00000 +++++

Additional / test transmissions

5913/7992/10687 kHz, 17-12, 1310/1320/1330 UTC

94018 49438 88309 89844 29755 43522 86822 37777 65396 57739
72887 46478 61340 73571 81729 24160 70696 11630 34288 23723
90417 25667 50094 22979 20880 31825 61293 93911 71263 39603
73755 62428 59358 39251 87135 62674 86991 50022 99152 38331
45245 90772 16975 62599 18605 29221 76322 99023 44889 16417
12002 55770 16309 33827 95051 36666 63976 47520 86024 61253
76772 63160 13928 53763 82095 38429 83853 73997 45404 78786
26597 54010 98007 92920 43033 32896 99337 45036 78666 68864
75730 95867 53955 49843 91476 78421 58249 31582 24766 98106
74108 53195 71959 38105 88600 40745 54703 32610 28753 37623
65644 51650 26960 20317 22607 59544 86047 78444 48318 84977
46866 39416 33226 68448 34441 25238 83214 22547 89347 26410
84507 17452 15252 62156 27621 34006 89779 83265 75656 73945
85973 19348 23490 62021 17823 16990 30465 56142 91967 67331
85558 15193 25780 30432 98995 22546 15405 97053 17232 10416
69389 28037 26313 49169 91969 45909 65248 67942 55257 78738
19964 63080 85729 40429 67697 97761 84780 72890 13542 84780
93323 97327 93103 84381 76688 59725 26396 93001 98894 17699
74970 34804 72947 32913 80061 41686 42877 33142 17416 73307
32365 75113 61068 38004 64610 81926 21328 57148 69253 55091
43635 94768 53451 10323 44494 69848 93324 33389 77547 58295
58193 40495 81208 28255 72182 14086 51398 79598 77393 73764
44711 28462 70910 72715 83072 42837 84043 30221 78475 75313
35726 63244 18764 36049 97738 78612 19374 21127 46160 67669
69321 76655 38877 87576 38837 42964 28975 10357 92739 43147
55250 00000 00000 00000 00000 00000 00000 00000 00000 00000

28820 53649 86487 79907 22114 78578 48383 87427 96191 30354
89365 64804 39728 97397 59814 67619 26275 37391 96457 59239
56366 94894 59597 39105 28042 78417 82755 23905 70310 59242
93813 82425 27820 32196 59852 22125 23823 46044 42480 72209
93682 91812 59607 43497 49432 75883 70888 35890 25122 17254
20784 74720 46359 38826 43138 19114 52732 68357 36546 75874
86177 58742 25727 98303 72566 61771 30784 65756 52619 92993
49438 34432 42601 82936 73865 43824 99756 23607 51078 10540

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88328 87438 39367 21466 96553 82100 14916 54910 80790 31088
57389 96518 19391 19955 48289 40176 75711 90909 23170 15150
15342 55771 88086 79207 54256 21911 68963 67863 62989 69504
46191 40428 98872 57658 26982 70972 62574 71892 69619 33365
92980 17009 19883 26964 58173 32549 92676 39082 45719 97827
44425 91490 75914 13632 35746 87825 72596 93610 40815 32100
29802 71244 20973 77460 88226 81946 30035 50118 41565 53400
33099 48574 63284 25472 65539 11457 48021 48216 40540 83740
36044 74965 65231 78598 90978 79784 41195 74588 10600 63295
94390 71844 74269 61851 50070 46215 81886 90189 77781 25287
13289 16356 78572 28761 71895 80030 66783 10112 10570 40523
36157 75536 95755 28116 44135 76734 97900 75330 41322 98501
56200 00000 +++++ +++++ +++++

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The second one used that elusive F01 feature for a 5-group header, stored in a special block starting with '('. I had to patch my F01 decoder to add support for it and deal with the nonstandard block size. So yes, it uses ID 50992. Interestingly enough, it does *not* feature a serial-GC postamble. (PY)

5913/7992/10687 kHz, 18-12, 0900/0910/0920 UTC

```

11100 50992 15948 18003 02019
68703 86957 75689 28652 38002 68269 93754 21462 84344 57493
46432 39543 39731 71272 48463 29807 94480 98098 77563 12013
95076 87021 11580 47284 75244 35608 74723 33948 12566 40412
52600 40569 98682 36355 52031 95803 10699 99924 32236 29068
61967 64888 21189 84695 88529 52259 73605 29280 10889 19533
74509 36498 84256 98458 39064 14669 41058 69633 67414 11664
89155 68114 11391 61730 20257 63358 16619 31447 53790 91315
27117 32319 33574 24801 95924 52854 24065 96814 62388 88575
23312 36644 77033 52377 41314 12010 34665 65506 13675 13820
23621 15212 75351 15121 68571 81971 36568 12361 63286 53685
34680 86860 68486 20605 29715 82552 82103 61128 20732 28161
63109 40062 26253 65119 64728 81760 68794 68548 95381 63659
73761 60733 68780 32332 32704 95349 34693 85990 39034 59373
62851 97521 69978 82567 70074 67398 54670 21202 78130 53419
39364 31240 83481 55617 86359 38209 27378 45154 96758 12759
98813 60519 63493 57594 82851 86197 42943 62188 71978 56919
15040 59500 16897 87607 19574 74296 32278 30777 42427 75697
60141 63667 49178 40027 77388 23137 75181 64146 25897 63995
14666 79390 11590 87518 55588 44534 85063 31982 12818 56013
38880 90425 65588 12703 86365 35604 78400 36507 89271 17579
00000 +++++ +++++ +++++

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So I went back and also processed those F01 from **August** that also used 5-group headers, and that I didn't have time to deal with at the time. It gets more complicated, because those are double-message F01; now the F01 protocol supports only one special block for a 5-group header, so the header for the second message is just part of it within the normal block stream. I added blank lines for visibility but still kept the original layout. Note that once again, still no serial-GC postamble! (PY)

6957/9425 kHz, 26-08, 1145/1155 UTC

```

11100 69992 95184 26001 02019
_____ 14075 72775 34850 37994 92208 53930 31611
69605 53658 99919 64166 89866 64547 13127 78199 71013 80175
15620 86954 68755 01912 02416 88313 91605 16628 07346 02865
_____ 84639 51953 76623 96845 89216 66526 _____
_____ 38594 61839 27474 37519 46262 53283 _____
_____ 40725 57700 21245 96407 04372 54670 32211 43423 08488
60961 94854 25789 31970 66227 08409 69432 28259 31689 24070
30789 56854 16445 20303 92110 53558 97625 47357 02962 31513
45347 45939 91345 32185 38372 68900 92898 61480 31440 62029
71589 90780 10196 82225 30352 01923 94643 58556 35107 _____
_____ 00595 43474 05467 84872 10462 28973 48055 69716
77040 73325 00444 26450 _____ 32791 10113 19955
03806 13678 28843 _____ 72358 78718 55420 61309

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17033 23936 09396 63895 59878 18685 44562 35404 68517 33311
43085 13205 49641 70720 52347 75472 60099 23575 44345 98556
13955 96823 94412 _____
_____ 58356 88526
24210 57275 73313 19402 _____ 05838 43513 19675
25483 34811 84392 79427 77466 43156 79876 83744 24071 53908
85447 86581 92759 67825 97161 _____ 52327 13932
00000 00000 00000 00000 00000 00000 00000 00000 00000 00000

11100 69992 75386 26002 02019
99128 _____ 11240
87264 64656 19016 58221 68268 98490 23967 20364 58389 08544
83458 _____ 79447 34332 84979
_____ 78070 34328 15500 05746 28850 78374 94178
29972 97004 18637 14706 37563 04165 22610 86301 08383 93462
00084 03495 17579 32170 10047 49387 57664 30831 50109 11522
_____ 71273 77441 09372 80757 52727 94627 73709
38502 41953 _____ 65051 19005
35228 08574 01160 41931 02801 56187 13282 55267 05440 10793
01436 56219 73735 83132 83382 96778 78597 57533 04555 42126
71027 89455 _____ 50797 12511 69578 44121 21398
48167 96976 05895 50158 _____ 36669 89758 56476
_____ 62943 17301 12421 95712 30828 25702 51547
38179 83488 21407 45900 58136 65451 08166 94775 _____
_____ 62780 44846 22160 05589 41739 15975 71870 86502 18172
_____ 55601 39309 15667 01146
44865 59467 _____ 26919 61075 41339 93404 49216
39281 37762 61381 12841 48289 58056 43327 45902 35256 66082
73932 73887 62746 _____ 13783 92886 88771 01967
21602 37014 70009 88405 41302 04088 04016 30449 _____
_____ 73532 73887 62746 16352 00000 +++++

11611 kHz, 26-08, 1205 UTC

11100 69992 75386 26002 02019
95128 72937 14883 33077 11240 87264 _____ 68268
98490 23567 _____ 83498 24407 80838 33405 28248
86857 03934 78070 34328 _____ 03934 78070 34328
15500 05746 28850 78374 54178 29972 97004 88637 14706 _____
_____ 00084 03495 87975 _____
_____ 20634 71273 77441
09372 80757 52727 54627 73709 38502 41553 44357 45709 42144
82640 38564 10753 08436 56215 _____ 41931 02808
56887 13282 99267 05440 _____ 73735 83132 83382
96778 78597 57533 _____ 07421
50797 12511 _____ 50158 71418
10365 _____ 02570 36669 89758 56476 62943 17308
12421 55782 30828 _____ 83488 21407 45900 _____
_____ 94775 29773 23203 _____ 22160 05589
41739 _____ 34258 15768 62523
_____ 59467 05400 53870 66227
08409 69432 66082 73932 73887 39281 37762 61381 12841 48289
98056 43327 45502 35256 66082 73932 73887 _____
41928 83783 92886 _____ 37014 70009 88409 41302
04088 04016 30449 05572 66030 67765 74748 31696 04061 16352
00000 00000 00000 00000 00000 00000 00000 00000 00000 00000

11100 69992 95184 26001 02019
97850 68987 53678 14075 72775
34850 37994 _____ 69605 53658 99919 64866 89866
64547 13127 78195 71013 80175 15620 86954 68795 01512 02416
_____ 97004 18637 14706 58953
76623 56849 _____ 06033 98882 38594 32170 10047

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49387 _____ 28524 41771 40729 _____
04372 54670 32218 43423 08488 60961 94854 25789 31970 _____
_____ 28259 31689 24070 _____
_____ 97625 47397 02562 31583 45347 45539 91345 32185 38372
68900 52898 68480 31440 62029 71589 _____
_____ 58556 35807 01440 _____
_____ _____ 69716 77040 73325 _____
_____ _____ 13678 28143 11199 31014
32300 72358 _____ 17033 23936 09396 _____
_____ 59658 20708 32791 _____ 49641 70720 52347
75472 60095 23575 _____ 56823 94412 87875 54184
62747 25543 45211 89578 40715 _____
_____ _____ 34811 84392 79427 77466
43156 79876 83744 24071 53908 _____ 67825 57161
04524 22986 35777 52327 83932 00000 +++++

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The second cycle was clean, messages #3 and #4 for ID 69992.

5089/7337/9481 kHz, 26-08, 1330/1340/1350 UTC

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11100 69992 74365 26003 02025
52887 96269 96645 54436 40949 76265 66435 09367 30179 18635
76095 30234 14828 30849 19013 39122 56074 47575 87451 66962
31557 47327 99528 07141 97364 30134 31358 84058 68562 33617
84058 61562 33617 58477 40323 35245 53202 59040 90208 89449
95256 60322 30871 60015 64350 87005 69894 80652 82507 95622
86939 05882 19686 85697 33364 47929 67974 59491 74529 66989
90677 16166 04468 03312 74482 91384 87598 84535 60300 78249
07185 90720 42159 90529 25216 72508 51745 54112 83398 74838
70773 37606 99956 39684 38380 58055 41914 86219 45720 22674
77551 91865 34961 92568 38736 22661 44857 79354 47786 86375
70092 10637 88591 06822 26588 25260 26647 42797 39939 84292
07704 00086 99202 08670 89722 09571 43186 79424 87812 72681
71459 61467 36850 89229 57250 36828 01452 30049 84424 58313
88013 13899 35741 59511 38470 99454 24595 82078 10495 85030
87172 06252 73805 48863 18034 95520 77270 63404 34921 91396
66508 22051 06362 19219 56658 17761 58440 90925 90015 49974
03185 15748 33218 25295 55720 54744 53672 78384 32387 80113
59901 52419 46996 25248 95508 27702 47424 36427 41445 31712
59715 62123 06260 13124 31508 40837 49026 75200 94739 73402
84638 20599 88445 50709 66152 83835 73815 52767 23865 41440
66721 00000 00000 00000 00000 00000 00000 00000 00000 00000

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11100 69992 37915 26004 02029
_____ 37715 53323 40676 89363 44187
59159 82825 92987 66831 95664 85201 21175 74763 97554 42048
23544 83052 50021 03524 46861 80380 45762 54578 98161 88432
00696 87277 75170 57715 51807 83792 49933 29493 85560 52158
16617 18514 70314 82307 39400 96235 51177 13708 61406 79238
10748 33190 68603 52443 04164 43758 63619 81968 41907 72416
53395 97155 18807 08906 31638 46549 52661 52587 21585 57487
00935 89658 80298 49134 65606 27886 59751 12632 08032 81053
56471 61106 27020 20291 80291 49134 65606 74498 02933 46432
02919 67033 54730 47421 99805 20854 19106 87355 98238 49312
55272 99568 26289 74772 60085 68520 82105 42254 05006 58328
95336 20281 09093 21479 89424 06122 33962 17401 93223 77618
11665 95586 75368 58778 41412 22957 99833 91324 16078 60150
26124 29396 64430 16417 02529 99570 20026 37828 25882 93416
52692 08464 66263 84747 23555 69278 80078 88766 49532 84328
59953 05305 88241 09057 94887 13313 79249 40305 39093 08830
02618 52763 12967 03577 40659 51525 84623 26393 53859 95444
05443 94692 06899 70986 98046 48123 05706 21241 20161 61621

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31484 59819 52795 80052 82648 24282 86171 41612 60612 48816
01849 82196 60356 60837 74475 37907 51718 31201 41603 87893
62353 32716 15014 04718 98276 86653 00000 +++++ +++++ +++++

This series apparently came from a transmitter whose signal mini modem struggles with, and was plagued by a number of consistent operational issues. (PY)

5913 kHz, 08-12, 0910 UTC Message 64. Switched to 100Bd at the end of the txm, sending 464646 464646 for a while then only blocks 1, 2 and 3. Interruptions in modulation and signal

7992 kHz, 08-12, 0920 UTC Interruptions in modulation and signal

10687 kHz, 08-12, 0930 UTC Message 64. Wrong 100Bd rate

67648 98103 39094 73761 51487 65970 12332 62113 67227 30497
43666 60255 55043 03850 25455 62581 24874 00548 29383 97985
48607 92112 48487 83786 48450 42687 43983 03576 04936 42793
82805 38682 32984 83418 76812 07936 99479 37632 59582 95423
80783 41899 61754 70913 83623 94292 70833 32648 77806 11784
86410 27189 14177 13814 06726 25996 26274 24304 07527 63430
39116 09329 99132 65882 33544 92607 72676 26685 39581 16023
71434 06525 57222 37343 48191 64030 28113 82341 94579 46214
06533 93496 53334 93475 03146 42457 49385 38836 99933 98476
00739 06104 59755 69975 95089 36648 78984 61451 43080 99477
56640 12898 44164 64302 78464 13934 26009 42280 39376 09832
43361 24116 52740 41619 47331 70220 19899 87454 61020 32599
58380 97466 22437 13176 12251 39221 80627 88223 93022 96039
55979 53596 24572 85324 00612 70451 90494 89091 19806 16148
07344 13909 40407 70004 72179 22400 37138 88612 57878 03531
52755 50387 54630 73850 72998 74039 81063 26869 42256 40665
13440 72777 30893 74137 06352 35683 90178 59482 03359 00549
55742 03932 61007 27031 85511 70340 34661 72398 43055 37654
99592 90721 62270 68116 05761 00516 54364 85897 89715 38032
43049 96840 92079 38381 38904 04009 54018 11668 88828 98717
91165 06349 61538 31743 68420 76968 55028 94400 24060 98487
36945 64159 16612 94375 53812 94514 92911 70664 70038 53768
00794 73140 22644 42431 94846 09878 02655 43930 08673 06283
99089 88289 92086 84848 66481 33506 36700 86806 01875 94270
38313 77853 42233 72754 69567 05157 18189 71122 61286 97808
64250 00000 +++++ +++++ +++++

5089 kHz, 09-12, 0830 UTC, FSK 100/500 Interruptions in modulation and signal. Wrong 100Bd rate

7337/9481 kHz, 09-12, 0840/0850 UTC Interruptions in modulation and signal

03049 22471 59315 99541 92440 99471 90908 72398 40855 10549
32999 24879 55858 60982 24270 86787 43482 40966 90852 39648
40615 56311 43619 21872 34604 95190 55637 34808 87245 16854
49494 98106 05360 73249 49170 27838 25136 99500 76151 35805
02436 34161 94468 73479 26234 55192 34345 69008 97401 42611
49152 30726 40003 03722 85346 15601 37299 21890 70089 86068
09645 14791 46222 03679 76473 13064 09298 32989 69547 95314
26350 54165 89663 40408 41088 07696 24007 82976 95200 19681
66334 83090 20468 81122 07181 46031 81355 79658 86266 53093
72787 07169 24305 98362 02782 91709 76388 79400 14637 27189
74148 66783 28357 99243 48865 98420 06000 30739 52730 99595
70642 95335 20434 50672 33645 72565 38277 01392 09903 42841
12988 83711 25778 45849 57433 09111 49385 50762 35414 61310
97940 11697 32725 20340 01839 06870 46679 78887 30159 84882
11270 36874 07289 66567 00167 85188 75340 75842 74734 14518
82062 98007 69257 10216 98922 88914 30552 19140 99057 83460
54173 99405 49772 76830 84377 88979 99272 76932 70056 54062
62333 51461 93801 03198 36572 18030 16311 78033 90026 50804
03310 56686 41718 02079 27182 30641 69895 62230 60494 41119
47637 06492 03600 85863 18508 01974 13517 32261 05949 73384
26259 97761 59101 50873 89815 83514 64735 48442 49957 72162
79983 46365 56069 25736 65566 76039 79181 44584 24182 30728

59406 73277 73772 50605 24943 64419 10336 55701 69867 36304
39971 24241 42864 85363 84855 42578 84114 39337 92833 70585
52511 62095 05309 00501 10394 46068 63116 04936 37988 53205
55079 98397 34746 90407 38927 66255 00000 +++++

5913 kHz, 09-12, 1200 UTC

7992/10687 kHz, 09-12, 1210/1220 UTC, FSK 100/500. Interruptions in modulation, wrong 100Bd rate

78509 67009 80835 89627 72080 02592 00425 11115 72891 51955
65870 91936 47218 85901 03325 98574 81052 77337 67040 25905
41817 03588 19690 42530 23771 67164 04961 97534 00537 52181
98385 18358 33207 58605 47322 54460 07444 81515 36037 46486
98022 27583 36821 25596 84259 85934 33082 72665 64746 95605
25340 92034 44849 76758 56079 79493 95390 17858 14378 89197
05965 35993 06263 29189 81319 52530 01728 40231 54239 51286
94343 37615 13369 11409 34407 20657 69423 32146 21566 79548
08207 91710 67840 54267 03886 07397 67012 25212 90957 89170
31284 40278 18348 03892 81161 08038 34066 92375 99507 11723
73878 06473 85683 23698 52412 58352 70727 25105 80139 99183
79505 60375 54683 69399 50780 81292 99872 87727 51110 60287
50989 71178 43557 77669 09645 03181 97091 12459 16726 92046
47681 91531 16839 86955 46959 76745 12700 43645 59439 94739
32899 57003 94195 39108 61488 02732 81958 99611 02817 55285
33556 98136 80060 74268 40638 36075 90879 76475 04629 82821
68643 35759 04831 60065 22659 77926 41636 01578 55840 62832
15767 93171 83255 70878 29489 22521 99995 36080 20739 93538
71788 92920 66094 84986 46813 29142 13532 58013 12138 61701
30908 42306 43224 78041 81098 55542 19940 09891 59739 35830
07506 31771 56493 91822 25827 01391 25804 00201 55642 84130
78047 05200 54919 28794 27035 99877 83948 86812 54803 93812
62566 92099 79628 96906 07937 43734 38193 73996 26345 58667
17858 49948 57428 86629 99966 69930 94291 04437 00121 44549
27928 31881 16370 34534 89403 36381 21246 54663 88233 18605
67250 00000 +++++ +++++ +++++

5089/7337/9481 kHz, 11-12, 1200/1210/1220 UTC, FSK 100/500. Wrong 100Bd rate, interruptions in modulation

31376 19438 95554 61536 75307 72772 74649 39352 77162 51301
40429 68186 92413 39890 29688 69396 89734 66344 78696 85535
62925 79822 09008 78153 63650 33254 33286 25687 34661 68192
73345 82392 48186 25557 07577 84246 79201 30680 89962 12757
68234 26114 07858 52625 53414 50634 70730 04191 76450 87859
47043 36598 92220 32947 91468 92622 36656 50792 29628 81103
32626 24164 92527 17894 38484 15224 17902 01304 68989 88856
60626 32936 43275 71263 79409 19884 39550 42236 91938 19204
61232 84565 15664 10613 44195 39020 36428 08353 59812 38319
72102 48142 93489 18556 23436 10170 03379 31492 29300 64062
88946 06178 68513 46752 24100 33319 75433 09210 34550 70834
61511 92938 24096 94049 59986 22219 79530 38948 35915 22987
08838 11936 28715 04330 92386 64537 19427 63505 51795 56478
39857 00440 66159 55580 65809 52631 90335 47912 61590 86408
54955 56633 67963 05462 52873 92957 50751 62613 41720 87699
52269 85732 17267 76805 12785 53757 37263 39344 54171 83748
00468 11362 42966 14917 10528 24062 75011 00561 79419 39739
48855 43851 50118 83896 20120 38401 43204 97001 54008 99558
57071 54303 18146 97358 76443 27154 82941 27075 68878 84271
21649 78307 73945 56384 27338 88535 14765 12687 88929 92090
86603 22557 93513 00473 02205 00953 47118 74948 98543 60954
31124 77377 34700 21855 36512 10196 35526 46270 43127 81498
60805 04679 36156 56155 04590 90849 76992 78900 54395 36579
70686 80333 64952 99184 97165 01767 26192 20192 98410 99855
30160 78650 38776 16956 66540 87509 80644 28139 01485 06505
42598 00804 19427 69988 32299 27826 32573 53126 71263 20180
87755 24925 53717 69965 25342 61505 06723 19793 69872 18067
69270 00000 +++++

5913/7992/10687 kHz, 14-12, 0830/0840/0850 UTC. Interruptions in modulation

92096 48282 33847 62714 26557 39712 82239 38912 68852 08411
65254 18685 26661 69401 16188 34407 66309 51663 41630 02506
62307 64532 47221 20975 28613 72791 06853 84155 36326 03892
92525 00753 47497 35742 07029 26004 19737 38494 86649 43949
61310 68777 66078 60736 41408 39813 22719 94898 85285 15837
42572 75539 08946 04285 74894 84369 73065 44159 67814 02527
60846 14041 02086 48117 09476 08146 65182 15419 49895 53906
32908 51685 34550 69479 50711 32475 57816 84641 31899 21466
98797 73493 14929 25670 41164 72429 46974 82001 49734 81785
85942 36126 08482 74624 38141 99538 49652 61086 73773 95792
28691 81739 87458 31835 24643 28377 95947 55373 70745 15690
90248 84213 44870 52257 84324 18510 74527 84287 27559 71864
36098 10559 73187 82207 52998 91979 19869 88403 22457 04219
68581 83517 25592 06843 62055 80676 00474 27390 98893 52466
82869 83826 39602 29809 44342 93813 46692 71234 82412 44240
26060 38517 42446 19433 61814 39586 75976 11504 61758 24662
65133 61262 55697 46551 67882 03132 13767 21047 63740 12504
76968 48351 04674 78978 17104 81481 00863 53914 68281 52581
96007 45733 97201 93081 11883 61422 04397 08642 66807 17658
73612 94822 97738 69997 11524 04412 40658 33581 44973 02349
48950 93763 67905 69186 54457 30140 55213 39024 00894 02370
85650 82851 04315 71273 41021 73238 20322 53605 73823 91313
22696 33964 60545 61961 23140 82267 82779 28182 86825 50229
03367 00548 23427 45279 29748 42696 58331 05363 81702 78792
13711 23056 05674 33907 54147 92430 02866 43235 76493 77121
63296 91106 48660 23009 22985 65713 27019 63978 86490 40504
07105 94177 81954 18170 87303 05222 40853 98163 50218 11766
19653 53703 91401 13908 05535 29174 50132 69837 73399 93879
21937 77173 86326 13085 57528 86439 56670 22278 77870 95097
10001 15587 60030 95590 19053 84303 73526 75824 99890 66436
70300 00000 +++++

F02 – Russian domestic net

12193 kHz, 08-12, 0853 UTC
11568 kHz, 09-12, 0628 UTC
14983 kHz, 09-12, 0749 UTC. Test
14983 kHz, 09-12, 0800 UTC
14983 kHz, 16-12, 0748 UTC. Test
14983 kHz, 16-12, 0800 UTC
16232 kHz, 18-12, 1023 UTC
16232 kHz, 18-12, 1026 UTC
16232 kHz, 18-12, 1035 UTC
14983 kHz, 23-12, 0800 UTC
13883 kHz, 23-12, 0810 UTC
14983 kHz, 30-12, 0741 UTC. Test
14983 kHz, 30-12, 0748 UTC. Test
14983 kHz, 30-12, 0800 UTC

F06

Link 00000

12184/10169/7739 kHz, 01-12/02-12, 0800/0810/0820 UTC

11100 00000 96325 28020 02339
96811 07541 78690 05392 35782 07731 70300 36567 56393 30055
56292 28515 76771 88559 98961 28049 82620 44933 47648 61334
77111 51740 23642 02174 41042 46918 61432 22019 01671 91737
67251 26420 33691 69404 80834 07578 40765 86494 51338 67707

91068 44404 63367 92880 05271 73016 74019 82049 20396 43752
46921 60934 77997 04210 94160 35453 10097 01572 62070 64405
21299 86966 21804 56063 90548 17981 50622 18393 40945 01499
14850 17564 51067 44059 90426 24453 06235 01927 81988 53825
13154 48052 26430 25870 26370 98114 91872 04802 59985 62837
07980 94183 83063 18756 88556 93685 22158 14634 32377 46957
19415 55709 13167 35295 19677 32962 94684 96805 85022 89584
31839 75734 60199 41853 43779 31669 37353 96576 69892 63284
93528 32316 44656 26331 99354 36558 52264 50551 22356 16042
46986 85199 73332 22407 50183 27872 69248 60368 59918 16322
11056 70596 34107 87952 99898 04490 33136 36667 40133 33032
32895 21775 02609 56918 44157 08641 46625 10136 99241 45742
24039 74193 91897 07865 13914 45181 81355 60075 61196 20847
96467 22199 17818 99882 00889 38464 09680 10608 05230 82013
77961 11227 37117 48965 68169 28868 05105 21713 65390 29564
17368 06150 99167 36392 41123 72509 66441 37937 13703 54502
45997 54277 41234 86446 02855 52674 45845 83068 06037 30165
47355 91672 08149 05223 90359 71355 60218 85701 52680 78964
60227 05231 96084 66478 58765 45251 45236 19501 70257 84889
05807 20231 00000

12184/10169/7739 kHz, 08-12/09-12, 0800/0810/0820 UTC

11100 00000 40295 05021 02239
63428 78239 91826 02059 12994 32861 14819 46041 75938 52502
86361 14087 86108 44368 07298 09520 30603 71362 04229 00769
03693 40458 65126 68190 84670 10702 73088 41609 69320 69281
80433 39524 09676 49097 90306 45904 41775 86273 38002 85528
06091 41056 89169 83793 90318 30516 97110 21930 49223 46514
86342 23571 81215 57356 54617 33601 66363 16574 10585 75233
95507 27276 89292 96239 45185 35499 12704 40287 78035 51006
87412 04301 73390 18956 56772 67805 17716 90895 49587 05176
09613 68504 92586 16730 59058 18528 78849 39619 85562 82342
09378 24426 44948 28587 49994 88432 39425 22297 70772 81486
90658 08980 60158 25393 80509 37067 31003 12791 89135 67193
60661 76430 85149 41714 32372 64804 47511 12924 70088 85059
23848 53405 83957 99135 54885 96934 68628 84059 19680 83405
21580 92340 81342 06178 73658 73401 37934 85320 49008 41978
08229 15160 96580 04433 07021 59588 60422 78913 89677 93560
80908 70301 70612 14222 44127 85873 45376 70098 21599 02638
71043 81798 67508 22251 84594 52648 65645 74486 63963 92706
43246 55161 61458 04607 93906 09483 64229 04636 76776 96741
61471 77516 84197 97284 23059 88316 95000 47714 19288 99922
55622 15250 36425 69516 56249 47183 67737 22498 94162 56369
84706 27281 41487 28694 18099 19409 59510 63443 03589 48424
26781 82534 71622 45929 73157 69513 86205 38274 37006 24294
62303 21221 00000

12184/10169/7739 kHz, 15-12/16-12, 0800/0810/0820 UTC

11100 00000 23481 12022 01959
74907 84067 31748 48599 95438 19238 94658 21017 59642 14801
65031 34781 33573 88022 39128 95885 45607 47856 72039 06414
14345 03186 62660 08187 60586 91487 40726 36663 70584 63829
35573 83531 02754 87160 31340 91428 55022 49823 38272 29227
35014 81226 34827 21330 00256 21611 60277 29395 60584 02858
62474 09954 59956 26262 30493 96333 79830 48223 66811 78342
31331 09779 78736 78140 28356 70922 93755 45740 58838 35650
28503 22577 96334 78660 66015 46580 19139 09656 20997 97185
29096 36179 97734 03730 87316 10921 70401 65658 08968 74439
40392 57985 84335 29223 50405 20452 18352 06047 59950 53808
05750 08543 11970 71658 84068 46935 45255 81320 31664 96872
32359 92116 02938 44293 47680 74548 17949 02268 95410 18785
48619 10747 52031 65911 68697 55156 03057 10358 59691 64785
78690 96967 89935 76886 18104 61127 08996 77444 17014 85401

24589 54537 38248 71108 54216 25235 89984 48273 68686 21971
01357 72401 69719 49321 50107 81502 68826 47137 21983 11808
59638 20954 06556 95615 00885 25630 59149 89702 52207 13145
83576 07739 29979 80489 15362 55146 75350 78600 10134 89835
51674 68258 66890 57256 13518 33902 40806 73203 14448 91286
25286 52819 45767 22193 00000

12184/10169/7739 kHz, 22-12/23-12, 0800/0815/0830 UTC

F06a: File 44423 (binary contents)

12184/10169/7739 kHz, 29-12, 0800/0815/0830 UTC

0800z undecodable

F06a: File 44424 (binary contents)

12184/10169/7739 kHz, 30-12, 0800/0815/0830 UTC

F06a: File 44424_ (binary contents). Note the underscore after the file nr.

Link 0000 additional schedules

The following F06 and F06a activity took place on 3, 4 and 5 December when F06 70202 was silent.

6995/9051/11004 kHz, 03-12, 0540/0555/0610 UTC

11100 00000 18473 02069 00029 10582 00000

9061/13499/14984 kHz, 03-12, 0700/0715/0730 UTC

File 44409 (500 bytes) binary contents, empty text header

13375/11013/9071 kHz, 03-12, 1220/1235/1250 UTC

File 44409 (500 bytes) binary contents, empty text header

22954/20064/18533 kHz, 03-12, 0740/0755/0810 UTC

File 44401

22888/19477/18049 kHz, 03-12, 0900/0915/0930 UTC

Interruptions in signal, apparently repeat of 0740/0755/0810z

11014/15498/17419 kHz, 03-12, 0820/0830/0840 UTC

11100 00000 45769 02010 10029

86825 69969 20533 27589 59069 47589 21407 49640 26793 18767
66173 48224 45311 98628 98205 53939 11339 64370 46628 03118
35029 84212 14820 99050 39843 85504 64706 52216 57448 97937
76542 97950 09809 32778 88874 14995 95685 84090 48361 93359
23703 62857 24151 24947 59203 99953 66488 15357 77040 78902
14257 40330 37528 84356 81128 95249 27719 77239 75015 11155
35202 32483 30509 35687 46606 00299 58998 02427 88001 76926
46147 37031 49378 95788 51424 73641 60397 74992 89374 79971
09601 82124 97309 14527 24261 02255 19116 64393 53067 20113
59864 37029 18830 52358 90904 04495 33387 90879 10141 23565
91915 43077 87162 80154 88814 80046 47934 31503 22367 _____

_____ 81 18167 17588 88011

11044 27394 73097 36567 29462 00714 60988 58169 26632 24428
29350 51150 58633 76083 26621 36291 97323 29682 71431 24789
63898 92256 79185 69910 80914 32715 50068 25774 59952 88918
48163 61697 67114 63913 26374 05556 33542 47263 76832 14571
03136 22419 11487 96987 34677 46051 02546 33066 00526 10309
37479 68818 49091 23911 68253 80953 23257 73028 59496 36433
51952 47895 65273 95107 57058 46066 89162 28847 42825 88285
07321 55619 60006 07884 59225 11944 61880 99647 35776 12166
94357 39102 19454 67974 87356 08136 56211 66628 39635 87920
63791 31294 14271 05045 06162 11960 86965 41808 88746 80353
14379 46619 54150 27299 14663 05423 83050 85947 77389 60104
29962 29340 45066 84798 48546 15702 33419 56053 86163 79949
82626 77770 52346 94814 56709 46880 90884 50034 33240 70659
10222 23053 50584 71665 51830 39656 04837 41194 01261 47991
13662 27211 71563 54400 89211 67699 13757 94506 87314 05345
34026 37995 25119 44519 22365 50519 84383 36473 22310 61175
42600 03700 96495 08982 99133 39389 67682 66800 88572 42920
39967 66128 98468 77324 29858 71222 33667 59666 61898 75960
94393 20257 08527 21906 60312 91668 78864 60993 97719 13461
86119 11288 32072 63575 48288 79243 53032 52317 01841 46902

44227 39885 33093 47476 54895 63362 56932 77742 55616 84125
97599 20695 45316 91597 51205 76882 01721 24286 34675 27884
92458 94042 50807 80340 88998 24491 24132 63999 50598 39539
87251 82195 70470 62936 22374 38213 01335 14804 87685 85960
02558 16066 83297 78404 76058 36738 36414 12193 83169 48999
10439 91902 59652 70979 67679 62364 71032 12217 40372 82476
75461 56706 89675 38978 86283 44484 57358 23582 51498 37691
39830 21938 92301 82035 39244 87847 67904 99610 71321 01162
58796 73999 34609 32822 85665 13595 70853 65451 06142 04084
71166 42964 56565 86032 07685 47607 30962 18501 95407 27886
14405 14630 13892 25800 12971 60148 43504 76842 47455 50711
95902 81181 03053 09041 43455 69477 52174 67774 77262 11759
92603 28986 48485 42812 68165 36296 72661 02506 64112 20520
01694 14492 94388 04788 93207 51732 22999 80079 31953 62272
86621 87097 82949 53704 10702 65437 81054 59766 36170 55967
86647 37504 99009 67380 62111 68435 29830 42836 48803 62156
65653 87639 49204 85829 91096 43894 43927 67986 51134 23067
98279 50082 02628 32391 38064 84244 96817 56069 99300 00650
09954 77185 81567 92968 64264 51286 59640 95308 06438 67553
33121 49105 35817 58518 18737 83389 99485 44242 15014 56872
96437 21910 93987 35278 58011 36774 99663 02380 96790 95376
57897 28151 41142 07002 27389 42495 97583 64283 46479 87970
08183 98913 55434 49962 95148 73379 98901 87727 09828 94686
38241 14766 28280 60973 28388 01932 60620 76992 38974 01751
66320 99362 24362 17355 92659 97552 72293 64490 78496 41518
85848 00024 90570 51942 78377 15398 84504 74007 86123 18460
07707 60644 28197 52103 86347 76180 68609 23175 63615 56354
60038 40060 81420 85594 74023 82409 22748 77537 47276 51420
56844 69695 98780 74130 54418 68229 97398 60147 65055 03750
84636 34265 74017 84095 82281 93384 80638 55020 39589 61201
65473 04730 99706 39073 38416 73199 90025 76525 84958 52216
66141 09818 52780 87085 64121 42016 45857 15927 40757 63005
18281 07515 06491 32885 84969 83582 80707 77171 91461 36543
24080 67269 09979 78553 27647 84616 53945 82868 63321 91975
28157 03414 25508 60275 56770 83518 18528 24471 56329 89749
69523 66832 45976 31776 71545 51124 12083 54211 86498 56089
69439 11361 62645 81698 86230 60819 46336 26582 64959 36855
92678 60095 96518 89515 04809 37449 29595 00390 56471 31345
22590 10974 77583 78548 70249 24568 07475 64848 22192 67648
45494 96823 35508 21649 53661 33871 28642 61085 91064 78920
28722 58975 84676 51282 29536 45470 66285 90057 02345 30655
30233 61552 26707 27438 91631 69138 33520 35487 49764 88988
77442 72124 86341 80125 80914 61145 53318 42232 16937 15474
29936 19648 22807 74608 53707 74997 62009 82790 54995 80880
76422 18833 49909 03069 96062 13546 71179 73648 98517 15693
41712 77534 35292 92431 20506 00805 67218 75151 75615 14288
76150 86666 63866 90842 45104 10694 21976 79764 24054 89548
98806 86761 23546 61006 83407 32933 03347 70260 08548 91187
48289 17909 34430 23542 48513 29925 42259 67738 26293 60528
92368 46610 76632 63909 26582 98643 13814 95735 19499 53167
41096 30381 08401 98606 85742 04819 56447 17246 66567 25109
28871 84926 86190 96418 86841 59127 65188 62521 28692 03863
60323 65702 33204 24830 34045 63011 84623 13254 67449 59799
84106 21854 33878 46486 77270 21384 75355 49476 52562 11171
49041 32180 90096 82098 35891 07069 65680 55469 28713 44701
39701 46176 41806 90661 85559 23642 09362 26341 37346 68938
64835 34514 61439 51535 18450 55626 81723 74124 75036 45749
13098 58934 59398 72127 82982 74002 41373 07271 45497 22809
77797 07508 18002 45741 13552 86954 94688 06805 08870 22833
16914 64025 85111 53071 04955 46985 06177 52125 80877 89920
37753 95966 37210 93825 51581 52164 31101 15995 66930 55995
08652 10452 46462 58545 89116 67683 88683 57696 63653 27137
84167 47983 88304 60904 27727 50222 75916 52038 03736 06868

16663 15929 86783 54025 81870 38194 24847 06067 90836 27499
 97170 13778 45317 06764 64039 81980 61384 91188 50636 57560
 53330 26521 32168 23849 49309 86028 12447 62285 43407 49592
 13118 67303 13825 13368 15720 25380 61862 03455 23762 94175
 51385 91996 37012 42715 53479 39175 55175 38544 25955 09507
 10000 00000

17429/14980/9985 kHz, 03-12, 0940/0955/1010 UTC Files 44411 (2400 bytes) binary contents, empty text header and 44412 (100 bytes) binary contents, empty text header

5983/4499/3165 kHz, 03-12, 2100/2115/2130 UTC 11100 00000 59684 02070 00049 53842 12048 39768 00000

6995/9051/11004 kHz, 04-12, 0540/1555/0610 UTC 11100 00000 24851 03036 00039 57612 98641 00000

9061/13499/14984 kHz, 04-12, 0700/0715/0730 UTC File 44413 (700 bytes) binary contents, empty text header
13375/11013/9071 kHz, 04-12, 1220/1235/1250 UTC File 44413 (700 bytes) binary contents, empty text header

22954/20064/18533 kHz, 04-12, 0740/0755/0810 UTC Active
22888/19477/18049 kHz, 04-12, 0900/0915/0930 UTC Active

11014/15498/17419 kHz, 04-12, 0820/0830/0840 UTC Active, presumably msg #14

17429/14980/9985 kHz, 04-12, 0940/0955/1010 UTC Active, presumably files 44415 and 44416

5983/4499/3165 kHz, 04-12, 2100/2115/2130 UTC File 44417 (700 bytes) binary contents, empty text header

6995/9051/11004 kHz, 05-12, 0540/1555/0610 UTC 11100 00000 24851 04037 00049 25611 69547 25196 00000

9061/13499/14984 kHz, 05-12, 0700/0715/0730 UTC File 44418 (1024 bytes) binary contents, empty text header
13375/11013/9071 kHz, 05-12, 1220/1235/1250 UTC No transmissions

22954/20064/18533 kHz, 05-12, 0740/0755/0810 UTC Too weak to decode
22888/19477/18049 kHz, 05-12, 0900/0915/0930 UTC Too weak to decode

11014/15498/17419 kHz, 05-12, 0820/0830/0840 UTC

11100 00000 25149 04019 08029
 24780 56889 28910 29799 10211 37942 72433 85504 05559 17686
 57386 28929 89810 10603 72329 85456 92475 73355 15787 97788
 67998 09100 50193 41212 63233 34572 00476 45167 49975 07990
 54088 21001 61132 72639 90415 29616 66788 06999 48882 79009
 74981 11814 49363 53675 34435 17667 67983 62289 89900 70001
 71123 01212 24444 74068 35556 78788 18980 78080 80801 02122
 11143 22544 54466 05769 45689 95788 81119 65292 63835 59483
 44677 84587 55075 04899 09570 92113 21122 77586 81464 35185
 01676 97739 96000 41091 80321 40222 5_____
 _____ 3 70845 38253 32036 36553 96273 77798
 97798 58919 50111 30322 20467 71335 73566 75876 66700 87989
 28280 09131 22112 72433 43844 54555 98756 56689 07779 29999
 60954 21344 61423 72444 7_____
 _____ 8 42443 14454 27556 36676 66818 89099 69031 80924
 72233 72367 94345 86556 75978 97919 88389 39900 30035 41113
 33244 43556 55656 65767 09708 68699 79400 50121 52333 63234
 03435 74664 07787 06788 58999 30000 40011 92322 34324 43454
 47486 66600 66987 58899 89992 00901 41331 90453 25564 53666
 47988 57006 19779 09210 99001 71222 22734 54446 34545 07667
 79888 77898 68910 70800 62229 42153 64344 24565 05466 07908
 35087 10253 29991 41121 92137 03235 36545 67867 45778 50189
 89909 80021 71132 62632 33443 33535 24658 58777 18829 08999
 07010 21222 10234 43334 46555 16665 56676 09098 11132 80902
 60044 52633 91445 75355 18756 98097 07019 08919 30001 60044
 71133 92445 33655 37666 27667 18888 98890 52110 80113 92213
 04334 33444 46665 56878 37788 40919 21001 58222 21223 25333
 54554 55466 57677 76877 78890 09990 01011 22233 433____

_____0233 52333 63446 83546
 96566 68788 57729 99909 80811 09227 02323 05444 54566 25666
 57778 57428 89802 22192 42245 54544 92365 48688 67166 68789
 78812 89900 40031 01122 62534 53677 36657 95766 69888 09899
 48001 41011 41212 72324 05364 77356 97656 09977 28117 38091
 98411 31221 84422 52453 15664 14660 55106 37989 68890 60090
 02032 84134 53433 46658 46558 09717 99899 08942 09910 11312
 12324 72475 44357 55667 87987 17788 19819 39991 61028 42223
 63324 14464 15566 96769 06988 28903 89091 43111 92153 93644
 33545 25585 25779 47888 59099 89001 00011 00222 12653 43555
 15545 47767 89898 98811 89990 09011 00224 64323 35443 14365
 55658 96777 17289 29901 51104 82221 92347 64365 94555 75666
 98981 08981 10933 60111 52212 71423 84875 34559 75617 39778
 47919 68800 62801 81221 21234 04464 24456 55687 37578 27079
 88020 99935 51102 23513 74445 44455 75565 86776 77889 18180
 11001 21233 51222 12444 63548 77666 21077 91798 4_____
 _____7 59989 30980 89110 70122
 62324 33336 54465 45589 68977 37978 60980 50091 51121 52121
 32336 53544 55666 75778 87878 59099 20000 39112 51124 63434
 73555 15558 98778 27858 48799 29920 30211 03224 63224 75643
 95287 96566 57178 68981 58242 60012 22122 12344 99744 25576
 56677 49899 86108 60921 11412 11222 54243 34845 44556 85669
 88879 87720 07991 10117 20204 21155 66344 45755 45587 18687
 84089 48148 40032 85412 92233 02584 95445 15566 27998 10880
 28990 01012 01132 43122 05368 27575 44866 47678 59987 50000
 99239 73042 62324 23345 36557 76879 85777 87098 29220 19201
 00125 42214 74343 76865 78866 06687 29998 48913 52050 51912
 02567 42444 93455 65766 95767 79977 10990 41321 40911 21239
 33454 83648 28557 34778 57888 78809 99001 80244 02504 13336
 34554 25756 46678 57987 81190 89013 41111 13223 93343 52344
 44556 66657 16790 78991 50020 60011 62232 03344 74635 86666
 27767 98879 28808 29993 80111 51322 52244 37735 06657 25629
 37789 69898 79009 60302 91223 93323 93355 23555 27586 26878
 87980 90990 91021 20032 04532 15454 66656 75898 17777 78189
 28920 00934 21222 53333 71344 67847 96666 36689 19000 49009
 49210 33122 52333 74437 44455 24766 46688 68989 50990 79011
 01112 22332 72244 36547 64676 36578 68968 49982 88911 22012
 41223 93443 64450 85687 58687 57898 99890 10010 31211 31324
 62332 67464 07566 95679 07768 18090 59001 30112 62113 82332
 25544 36566 16077 27773 78089 59901 71181 70313 81322 93454
 14756 95667 57879 68909 49801 99211 21233 12358 25444 35768
 76678 86778 78821 09010 99112 21342 41203 43464 34665 06867
 16208 68899 20081 30120 90022 53233 73343 85656 85767 06977
 19989 39919 60000 91022 12333 53345 24555 78966 17729 47709
 68881 89102 71212 22122 04334 54555 55565 76771 98968 99990
 00091 02120 42243 53334 44454 05666 56677 88879 10111 40001
 30152 51132 83043 63555 15556 87519 37898 57109 89230 70212
 51222 64524 15556 24976 23888 58978 57099 58912 70101 72222
 32344 04355 45866 56988 97869 27198 03909 60122 01222 04233
 54645 54545 35677 58776 07800 49999 41001 41322 42243 93245
 88854 35776 87607 38989 28100 20111 50203 83653 13355 24565
 05676 26680 47865 49719 71011 01282 72433 44444 84554 55666
 16677 78889 28952 09911 51233 22423 43943 63555 47886 07887
 19800 00000

Note the rather non-random groups.

17429/14980/9985 kHz, 05-12, 0940/0955/1010 UTC

Files 44420 (2253 bytes) binary contents, empty text header and
44421 (307 bytes) binary contents, empty text header

????/14541/13363 kHz, 05-12, 1200/1215/1230 UTC

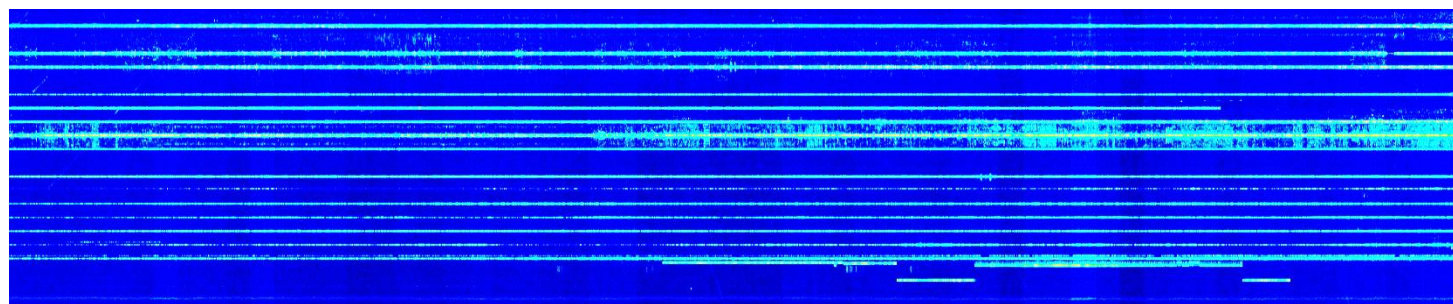
Too weak to decode

5983/4499/3165 kHz, 05-12, 2100/2115/2130 UTC

File 44422 (1024 bytes) binary contents, empty text header

5913/7992/10687 kHz, 18-12, 1340/1355/1410 UTC. Mangled looping, FSK inversions, 11m TX

11100 00000 15948 18001 00049 00000 00000 00000 00000



1340z

Known test frequencies, but outstanding transmission cycle: very long 11-minute transmissions for a null, 15-minute spacing between transmissions; within each transmission the FSK mark and space frequencies would invert themselves back and forth a few times, at random, and seamlessly, with no interruption in the transmission. But what is even more notable is that right before and right after each transmission, the idle carrier would be shifted 6 kHz lower than the transmission frequency. (PY)

Time	Freq	Comments
1327z	5913 kHz	cf+500Hz idle carrier
133410z	5913 kHz	46464 64646 46464 64646 46464 64646 46464 646 pre-TX test, mangled looping
133418z	5913 kHz	cf+500Hz idle carrier
133435z	5913 kHz	cf+150Hz idle carrier
133455z	5913 kHz	cf+250Hz idle carrier
133648z	5907 kHz	idle carrier
1340z	5913 kHz	11100 00000 15948 18001 00049 00000 00000 00000 00000 mangled looping, FSK inversions
135105z	5907 kHz	idle carrier
135305z	7986 kHz	idle carrier
1355z	7992 kHz	11100 00000 15948 18001 00049 00000 00000 00000 00000 mangled looping, FSK inversions
140605z	7986 kHz	idle carrier
140805z	10681 kHz	idle carrier
1410z	10687 kHz	11100 00000 15948 18001 00049 00000 00000 00000 00000 mangled looping, FSK inversions
142105z	10681 kHz	idle carrier
142138z	10681 kHz	carrier out, session over

9300 kHz, 22-12, 1305 UTC Mangled looping, cut off mid-message after 2 minutes.

9300 kHz, 22-12, 1315 UTC Mangled looping.

11100 79993 17285 22038 02529

47925 01283 01873 36659 08862 81660 31767 73707 69779 53595
 72983 11638 39270 03278 47669 92117 55337 44037 14046 39137
 77355 44897 52948 10465 37119 54545 31421 34364 16151 56648
 23047 29995 41474 17453 89704 34947 17029 11613 54437 88338
 32917 37169 20125 42921 19668 55634 13641 04624 39714 18110
 60189 22977 33257 63372 17502 80849 60718 98876 24586 56948
 08960 00603 44712 59497 53456 92686 07329 54556 93622 92777
 78584 37400 03463 34052 15158 20402 64741 99826 81073 35860
 74867 31709 32188 77205 46666 97214 98052 27017 42233 27800
 15808 45303 08064 63242 95835 16463 03636 63300 23824 78386
 40633 72604 28950 82110 75007 49700 72865 55492 19058 96193
 39163 69310 65717 46932 28028 29251 42227 07154 85748 42216
 35409 47553 23775 30374 55688 93186 07019 91407 32088 67172
 16083 28396 55361 75104 13093 97750 11455 41132 65842 48670
 72499 31636 09919 52519 37494 27438 53507 45606 39901 30483
 54553 33759 64307 15935 24989 32168 39368 65619 41679 38909
 99200 43743 68809 65609 30422 00851 21379 73664 47022 16931
 24497 89471 60256 19620 48164 97097 35743 38449 22236 31824
 54956 81056 61242 23020 23300 42310 53763 59754 91954 82285
 96042 77606 85675 34016 74520 90111 53743 26981 26991 13257
 86236 37239 37049 56500 62836 00171 41532 78715 26322 46751
 55637 32522 97977 49292 45401 45436 77072 87603 02226 11266

91606 71493 99150 90203 92524 80558 33547 41050 08564 07193
85922 33997 03942 13764 49531 17419 06056 39879 10470 37107
95398 20690 82948 31379 74861 02170 29431 50507 60622 64302
38250 38251 00000

Note: at the end, after a first "38250" serial-GC postamble (message #38, 250 groups), there is a second "38251" serial-GC postamble stacked on top of it (message #38, 251 groups). The 5-group header at the beginning reports 252 groups, thus actually ignoring the second serial-GC postamble. Test transmissions commonly use rounded group counts such as 250. (PY)

9300 kHz, 23-12, 0540 UTC. Mangled looping, 11m20s TX (very long for a null)

11166 00000 25896 23004 00049 00000 00000 00000 00000.

9300 kHz, 22-12, 1605 UTC. Mangled looping.

11100 00000 25684 24008 00129
94018 49438 88309 89844 29755 43522 86822 37777 65396 57739
08010 00000

Link 10053

12125/10575/8131 kHz, 02-12, 1650/1700/1710 UTC

11166 10053 35782 02001 00049 00000 00000 00000 00000

12125/10575/8131 kHz, 09-12, 1650/1700/1710 UTC

11166 10053 12457 09001 00049 00000 00000 00000 00000

12125/10575/8131 kHz, 16-12, 1650/1700/1710 UTC

11166 10053 95184 16001 00049 00000 00000 00000 00000

12125/10575/8131 kHz, 23-12, 1650/1700/1710 UTC

11166 10053 13782 23001 00049 00000 00000 00000 00000

12125/10575/8131 kHz, 30-12, 1650/1700/1710 UTC

11166 10053 74895 30001 00049 00000 00000 00000 00000

12209/9363/8153 kHz, 07-12, 1530/1540/1550 UTC

11166 10053 95184 07001 00049 00000 00000 00000 00000

12209/9363/8153 kHz, 14-12, 1530/1540/1550 UTC

11166 10053 15973 14001 00049 00000 00000 00000 00000

12209/9363/8153 kHz, 21-12, 1530/1540/1550 UTC

11166 10053 19673 21078 00049 00000 00000 00000 00000

12209/9363/8153 kHz, 28-12, 1530/1540/1550 UTC

11166 10053 57432 28001 00049 00000 00000 00000 00000

Link 60070

9489/7615/6983 kHz, 02-12, 0030/0040/0050 UTC

11166 60070 95173 02001 00049 00000 00000 00000 00000

9489/7615/6983 kHz, 09-12, 0030/0040/0050 UTC

11166 60070 13579 09001 00049 00000 00000 00000 00000

9489/7615/6983 kHz, 16-12, 0030/0040/0050 UTC

Null message. Too weak to copy

9489/7615/6983 kHz, 23-12, 0030/0040/0050 UTC

Null message. Too weak to copy

9489/7615/6983 kHz, 30-12, 0030/0040/0050 UTC

11166 60070 95724 30001 00049 00000 00000 00000 00000

Link 70059

7379/6774/5463 kHz, 01-12, 0500/0510/0520 UTC

11166 70059 56897 01001 00049 00000 00000 00000 00000

7379/6774/5463 kHz, 15-12, 0500/0510/0520 UTC

11166 70059 13579 15001 00049 00000 00000 00000 00000

Link 70202

11046/9065/7479 kHz, 01-12, 0700/0715/0730 UTC

File 44403 (binary contents)

9178/7624/5789 kHz, 01-12, 1200/1215/1230 UTC

File 44403 (binary contents)

11046/9065/7479 kHz, 02-12, 0700/0710/0720 UTC

9178/7624/5789 kHz, 02-12, 1200/1210/1220 UTC

11166 70202 35681 01004 01179

24599 93463 99612 73406 52173 92765 43419 29591 22276 06270

11334 98391 48635 31008 05489 50303 57924 46312 27407 92232

56133 14446 24895 20714 88408 48512 75365 57254 09527 33595

35266 14244 07201 12054 10315 64876 45416 68918 26220 15502

19959 78317 04578 03863 43353 96880 73633 71649 01367 15053

68592 84805 48298 02253 01170 00024 33216 06816 03065 00875

74337 96667 73049 51998 23749 51644 82360 44804 89638 43425

18074 33105 08238 63987 69159 82138 82661 88545 84898 79397

30824 83887 60350 80722 09626 98074 28558 90072 07602 92408

64181 96443 23212 01639 28239 16334 70959 33315 08658 15227

82532 42249 36303 06511 95156 41003 81190 51273 44334 32357

58558 07423 03169 74680 99492 04115 00000

11166 70202 86374 01005 02239

88082 15618 95720 13848 45014 90836 31552 26379 47887 72986

14722 71807 60337 48777 96427 69380 69878 87196 53707 39806

32670 07104 46170 82669 29324 00006 48608 33234 17677 37689

07923 40831 93484 19411 97809 36017 94952 38318 69627 78686

12054 71800 22900 04331 86578 25455 43888 10629 13831 85349

85656 51557 81930 58274 88091 31208 09652 04672 61290 14498

68726 93927 80772 96966 01570 36714 67940 00836 70337 74070

54233 89528 98285 27909 52412 17842 89338 42635 83408 59932

36826 72568 32173 82341 57315 94853 30980 54216 10475 52539

93591 11925 90917 57531 48752 20258 02950 08092 46432 97400

54166 00572 35261 95855 28835 40078 34595 56516 27003 79747

49644 78069 80260 43324 03110 68915 80101 10725 81759 73802

79829 71280 21379 92345 55918 74338 78549 31639 39801 31921

62667 60124 55995 53113 26662 54930 27518 14889 39845 59846

34521 99036 91314 96130 37088 49899 97379 93345 98128 32587

11412 32384 67310 96382 59581 17909 11956 72999 50913 22357

05860 64389 35091 68730 11946 99796 06453 44328 19713 66732

77622 62631 23403 45559 71200 15522 51829 02388 02959 83012

85798 19947 54984 92695 24079 71143 62190 46071 83825 64975

60656 53974 46428 19500 71209 48257 84701 41539 16709 61938

32361 17813 96450 94988 81723 47183 66143 07958 20565 68698

96885 10610 44076 65127 11585 37779 02858 46674 22261 29604

72881 05221 00000

11046/9065/7479 kHz, 03-12, 0700/0715/0730 UTC

No transmissions

9178/7624/5789 kHz, 03-12, 1200/1215/1230 UTC

No transmissions

11046/9065/7479 kHz, 04-12, 0700/0710/0720 UTC

No transmissions

9178/7624/5789 kHz, 04-12, 1200/1210/1220 UTC

No transmissions

11046/9065/7479 kHz, 05-12, 0700/0715/0730 UTC

No transmissions

9178/7624/5789 kHz, 05-12, 1200/1215/1230 UTC

No transmissions

During 70202's absence additional 00000 and F06a schedules were sent

11046/9065/7479 kHz, 08-12, 0700/0710/0720 UTC File 44406 (binary contents)

9178/7624/5789 kHz, 08-12, 1200/1210/1220 UTC File 44406 (binary contents)

11046/9065/7479 kHz, 09-12, 0700/0715/0730 UTC

9178/7624/5789 kHz, 09-12, 1200/1215/1230 UTC

11166 70202 62147 08007 01319

51664 84863 35562 90822 92192 30569 35952 34794 35727 34497
26246 36310 77439 33138 66997 63644 61201 33414 05684 93519
42292 44997 32051 56567 58414 54133 40969 20377 88696 37401
95000 71079 05375 38860 03865 79408 47829 59002 62976 62164
73680 28974 18263 75037 66618 68469 49435 97701 05661 50773
88898 97144 25520 23353 18503 80148 22778 57467 11307 70871
87539 25206 10554 74466 65274 27417 63036 12671 78507 20946
49050 42304 63072 18628 76109 92617 98597 60476 28628 82425
37919 79494 90735 02961 65107 10555 84432 77389 36791 15787
90265 32927 86476 24903 42702 46480 96536 13901 17410 49776
67564 70584 52608 04887 39778 20342 71697 86108 46166 10611
99338 29130 02057 77473 88182 33414 60796 42818 98431 28748
90236 15507 97412 41883 49704 94978 71367 24220 72147 07129
00000

11166 70202 73258 08008 02139

59872 59150 34660 31764 59818 61495 45686 14553 67810 50513
30108 03525 98054 84027 85995 08831 75300 30776 57017 23689
15031 90133 24793 54899 19778 92399 04074 67514 46223 53089
07954 79607 22796 79661 75274 68079 22449 54137 77432 71433
20290 40019 46768 00462 90769 86977 93718 92783 24106 31723
04938 72163 66634 18508 39548 98553 14773 87692 65738 19798
17283 05820 04867 60929 65525 35627 75283 12013 76389 69438
53039 00444 97579 74373 91678 58674 89963 22812 68308 23278
66651 06546 48110 26297 93501 58061 84510 64820 80737 27390
97176 59718 20377 87963 95032 39470 49132 69904 36482 10035
41499 44202 44026 96688 62703 06202 15464 68776 36201 31852
98863 83308 05416 05133 23486 08342 94397 40127 03856 12086
97104 46147 59167 28671 49977 09370 15206 36506 67500 89414
80975 10181 45452 54295 17227 31836 61499 02192 39058 72943
27858 43479 19797 82433 75687 41437 88327 42113 75903 35105
37074 75298 26117 92681 82801 19611 58364 68953 47455 99875
47327 65142 51185 62048 23734 14647 34788 54116 22617 43092
53708 64912 21124 76137 10831 56774 45571 93474 20213 52991
52411 52454 18967 65968 12831 29776 69483 77058 55634 54690
19160 03983 48121 32134 09842 16797 19643 79249 54167 88320
57519 23715 20976 89983 30001 37336 97004 69013 15981 03323
17028 08211 00000

11046/9065/7479 kHz, 10-12, 0700/0710/0720 UTC File 44409 (binary contents)

9178/7624/5789 kHz, 10-12, 1200/1210/1220 UTC File 44409 (binary contents)

11046/9065/7479 kHz, 11-12, 0700/0715/0730 UTC

9178/7624/5789 kHz, 11-12, 1200/1215/1230 UTC

11166 70202 85476 10010 01519

91007 17655 65228 69337 18871 25358 46366 91551 29648 63237
82954 46694 47522 69164 24200 54993 19598 83531 71343 94119
66536 46137 80881 09024 00465 29511 49907 32411 96114 38343
32021 58051 26120 29718 57253 34107 96408 33836 54414 68671
42632 79911 99332 64696 73569 56932 37410 26506 72438 63969
53925 05078 92056 29731 90531 74284 04783 06033 31387 55273
93189 64890 07343 31185 92388 53906 91642 19388 19957 89648
85560 93418 54395 93705 17421 71821 48065 01101 03429 16064
85530 95759 43756 04729 23248 52718 52328 76154 71545 91752
43723 56729 04820 72124 25652 17012 10895 83126 70433 22872

15479 10118 63916 73837 42659 80730 55276 45841 97363 20946
56130 80541 80735 75716 62408 88421 74357 73827 97410 57835
54257 41688 99500 87207 20642 95727 02856 82561 54281 68100
84728 87564 35502 45378 77652 38284 86710 24909 70012 59838
24383 18555 43451 47123 31480 58466 20512 96818 86192 10149
00000

11166 70202 75234 10011 02099
09923 01257 75911 98776 84539 12845 88380 43831 73637 28913
78937 34334 47846 73972 01958 76224 82158 24430 21672 76661
17424 84798 36984 86888 68421 96821 70851 67848 45706 17449
03890 76997 83408 26589 56916 99743 90184 50596 52098 73951
65488 12405 07408 80952 48374 44270 44056 01495 90998 24041
11617 60074 74019 20906 60499 06082 06081 61548 16481 05200
74557 52653 36978 39496 39770 20690 53735 39647 89830 54929
31636 97717 98329 64613 98307 33960 52043 86223 24224 16039
40837 01788 57971 54146 26977 54154 46384 20430 36017 70181
94237 66170 36451 27770 43165 35160 00332 27687 74511 96697
62028 56105 65797 46663 17314 48807 55483 50084 29982 92986
95721 23653 38156 27583 97782 81619 77505 28088 99852 93494
63540 86769 11872 27019 00172 24232 17115 74815 06732 93271
35199 88168 80642 60947 76204 66378 37908 79818 40593 75112
98634 84272 44619 92196 09750 72896 75912 04297 22126 62811
08930 02900 64274 26927 34948 53065 79818 50036 86306 33353
20921 64697 59565 70395 14851 52843 67285 16522 45890 24041
73105 43896 19755 06359 89801 53591 02726 10764 45034 23046
52671 54991 44452 40334 84152 57828 86842 98689 34805 39739
11029 49725 25163 90780 79189 38775 29144 91740 26286 70809
97352 99430 30304 80348 00413 32084 82965 11207 00000

11046/9065/7479 kHz, 12-12, 0700/0710/0720 UTC

11166 70202 95348 12058 00049 00000 00000 00000 00000

11046/9065/7479 kHz,15-12, 0700/0715/0730 UTC

File 44412 (binary contents)

9178/7624/5789 kHz, 15-12, 1200/1215/1230 UTC

File 44412 (binary contents)

11046/9065/7479 kHz, 16-12, 0700/0710/0720 UTC

9178/7624/5789 kHz, 16-12, 1200/1210/1220 UTC

11166 70202 25846 15013 02039
25469 90067 58193 40524 65880 12173 21214 79316 84445 58791
77066 41439 54571 33061 96994 35820 59448 18687 13257 67474
17778 52314 99783 34544 37721 37027 58399 53166 10007 51646
84057 77371 76141 35509 07502 06175 32647 53430 38822 95073
57278 70527 60315 14122 68147 91590 42104 19772 51694 44700
78950 32679 20448 13757 71691 38645 86500 49640 01746 54900
61657 14656 72124 28895 20163 39979 13382 61810 84985 00767
77942 73953 23555 38640 71250 54240 63923 86214 93170 60946
67264 73363 88074 65913 17667 19921 27067 59402 15144 44478
70770 57779 82804 44002 86112 81214 24123 23925 15566 93600
91242 83418 22252 21852 50255 85530 59372 96793 54385 66869
37388 82818 61027 66531 87394 88504 53564 78947 44122 75368
53911 60348 97003 06958 36719 43530 82748 05461 81172 40606
17852 08028 21328 38434 94493 39977 80921 16410 88241 47089
03585 41310 51013 54175 14417 18869 87736 42091 73830 06792
40127 60407 09627 18869 26040 17902 38232 74897 07819 18077
11027 76094 88098 31887 46714 10674 56472 24849 35658 19304
35483 80751 27135 75097 99367 89114 35429 57854 63993 88623
25719 27221 71420 83697 65676 24471 17534 76390 53737 57575
96176 80817 59962 49273 58227 12283 40435 52812 09054 68303
11133 13201 00000

11166 70202 91463 15014 01359

39976 17345 79419 26510 73408 29404 63334 59784 86317 16782

65059 46019 72617 59372 10703 23929 41780 59001 56735 87558
97491 76457 93887 99527 72655 50259 59745 47742 81681 01849
83471 62748 75999 56899 11086 37911 13729 37426 84764 19625
79444 04379 74563 59720 14991 55416 86038 47268 47248 07541
92166 61972 23826 19285 63026 16323 92597 32137 91677 78709
86019 35889 39657 94682 96171 87602 50547 48541 51464 38872
05052 32447 30936 51079 16006 15238 77090 03317 86767 28139
93204 22687 81431 09561 36046 91638 80285 76157 39941 12052
18969 12351 33124 30739 34755 95494 32314 56073 68397 98866
26447 20400 94986 39694 85504 67952 82243 64366 55389 72934
99693 88061 24755 17465 27155 30944 74764 84083 35983 18130
47679 42481 41509 35618 95250 35167 50100 59361 92815 91742
49291 99666 30070 14133 00000

11046/9065/7479 kHz, 17-12, 0700/0715/0730 UTC File 44415 (binary contents)
9178/7624/5789 kHz, 17-12, 1200/1215/1230 UTC File 44415 (binary contents)

11046/9065/7479 kHz, 18-12, 0700/0710/0720 UTC
9178/7624/5789 kHz, 18-12, 1200/1210/1220 UTC

11166 70202 35147 17016 01979
35666 72131 64278 01690 34938 71226 23345 64479 33728 27183
02111 98057 24483 15876 23194 06701 59515 28531 66037 79196
15646 88684 20464 00384 70663 28227 35649 39748 65039 89717
00437 96752 47327 47152 15937 07591 26698 62380 46354 43061
81040 19352 58966 52233 94063 03381 89213 31611 19840 17623
91809 24464 98231 53940 63831 80028 69629 60350 50723 27252
62443 72251 71140 42786 51796 99591 21582 17894 12827 87195
46748 53978 17080 90413 86553 41410 45387 33296 35741 01341
15691 41476 77030 95196 49253 66936 73738 31529 23673 46873
32811 24922 86165 63815 74200 86636 25525 99212 67528 51677
26222 97660 21976 71974 53066 83957 40327 30370 39868 00190
73113 55088 80552 55009 33797 39379 46138 02321 60915 96034
76045 91541 38151 01447 17150 56633 08237 08908 09030 36091
41654 35833 38845 41078 46048 54606 14278 13890 27307 41710
27983 43941 38235 64861 11970 33454 75768 12810 05380 30050
12653 97508 84058 68416 74541 83328 25404 88241 98433 23014
06888 20614 33402 05067 61718 60063 69540 42241 40060 64426
06075 55836 49269 49743 94568 35482 71553 72355 18167 79100
82530 15397 92807 42726 19087 21870 01348 54879 69997 41489
96536 75183 87739 83483 33773 16195 00000

11166 70202 15946 17017 01439
68893 73789 22454 28447 05358 17753 09382 93078 50651 15725
60962 80565 40993 56876 38450 49206 03011 25006 89135 51937
58789 92530 60038 23538 55629 38007 29271 56203 37688 73128
84768 11944 01720 90131 05067 45239 04071 65546 21824 34372
11139 81240 68762 44905 10476 48676 46729 73715 24720 47336
59547 47033 95552 13237 00370 70929 29858 38488 93198 57670
25278 67819 19269 76399 17351 03016 82988 01570 15416 51201
97108 57560 19480 77914 91828 82935 35225 50894 77504 62757
29349 85537 15668 02413 92425 27950 78025 41371 01470 36528
98141 30331 99403 48019 45474 20178 33596 38993 76472 36195
20678 18652 42404 35971 29811 13937 58614 74428 01607 32852
64895 24427 44865 16943 31655 26364 78351 18886 91578 65222
09759 66098 01462 98489 69085 96332 63908 83401 38578 76175
63581 76935 46456 38392 97685 06994 16585 99063 05387 38220
91296 17141 00000

11046/9065/7479 kHz, 19-12, 0700/0710/0720 UTC

11166 70202 59487 19056 00049 00000 00000 00000 00000

Starting December 22nd, only F06a files are sent on link 70202. One file per day on Mon-Fri.

11046/9065/7479 kHz, 22-12, 0700/0715/0730 UTC	File 44418 (binary contents)
9178/7624/5789 kHz, 22-12, 1200/1215/1230 UTC	File 44418 (binary contents)
11046/9065/7479 kHz, 23-12, 0700/0715/0730 UTC	File 44419 (binary contents)
9178/7624/5789 kHz, 23-12, 1200/1215/1230 UTC	File 44419 (binary contents)
11046/9065/7479 kHz, 24-12, 0700/0715/0730 UTC	File 44420 (binary contents)
9178/7624/5789 kHz, 24-12, 1200/1215/1230 UTC	File 44420 (binary contents)
11046/9065/7479 kHz, 25-12, 0700/0715/0730 UTC	File 44421 (binary contents)
9178/7624/5789 kHz, 25-12, 1200/1215/1230 UTC	File 44421 (binary contents)
11046/9065/7479 kHz, 26-12, 0700/0715/0730 UTC	File 44422 (Binary contents)
9178/7624/5789 kHz, 26-12, 1200/1215/1230 UTC	File 44422 (Binary contents)
11046/9065/7479 kHz, 29-12, 0700/0715/0730 UTC	File 44423 (binary contents)
9178/7624/5789 kHz, 29-12, 1200/1215/1230 UTC	File 44423 (binary contents)
11046/9065/7479 kHz, 30-12, 0700/0715/0730 UTC	File 44424 (binary contents)
9178/7624/5789 kHz, 30-12, 1200/1215/1230 UTC	File 44424 (binary contents)
11046/9065/7479 kHz, 31-12, 0700/0715/0730 UTC	File 44425 (binary contents)
9178/7624/5789 kHz, 31-12, 1200/1215/1230 UTC	File 44425 (binary contents)

Link 80214

15946/12211/10286 kHz, 04-12, 1330/1340/1350 UTC
11166 80214 23568 03056 00049 00000 00000 00000 00000

15946/12211/10286 kHz, 11-12, 1330/1340/1350 UTC
11166 80214 91478 11014 00049 00000 00000 00000 00000

15946/12211/10286 kHz, 18-12, 1330/1340/1350 UTC
11166 80214 48561 18037 00049 00000 00000 00000 00000

15946/12211/10286 kHz, 25-12, 1330/1340/1350 UTC
11166 80214 12568 24006 00049 00000 00000 00000 00000

Link 79993

5913/7992/10687 kHz, 16-12, 0815/0825/0835 UTC
11100 79993 84321 16001 02379
67191 20202 19674 92951 83115 98617 53661 12198 24606 26023
58725 19006 72646 68936 50440 81174 90811 43164 72454 15064
26510 88741 14965 96726 60362 85604 36802 91095 45918 20914
45822 72683 06894 43985 17286 36224 84111 69746 54910 20683
49337 16671 24284 95098 28199 90124 13337 79663 99376 47052
99546 00509 62246 02957 28569 01608 90166 67098 33980 62252
11607 16852 52829 93531 86283 47164 16665 12251 68512 56048
22749 15731 74946 52045 15128 05921 98905 94598 30259 36270
38469 03280 86870 79786 30527 96792 24747 41726 07977 47706
22137 65349 22252 63842 46449 04180 98367 32266 17944 59204
14676 86808 91099 04458 24518 85061 83345 49410 61950 05783
05834 11626 98748 02654 75965 98099 44866 75314 16331 18731
09534 43626 69765 80355 65195 36092 85213 34791 81461 28381
54069 79319 21272 92874 01701 33042 16448 45200 63836 37565
64830 98665 02500 55425 16190 62546 41186 64714 39089 45151
23961 73331 85888 47619 28172 01301 98090 59371 85468 04594
19198 91159 90801 38891 07282 06655 04099 86727 64443 38504
74312 96449 25357 99797 40509 06427 72081 26890 89697 52957
67334 14494 76091 85301 23407 29010 31474 36279 48903 11010
21372 21874 40518 02817 26711 68278 12001 62122 55655 89816
77527 47578 15299 66186 31651 87291 97923 92449 93019 66180

61477 00220 04053 93094 08991 73476 03765 33684 96604 07447
15914 19903 24893 83984 19678 72129 93183 61903 95034 94811
21543 05677 60032 31589 70133 01235 00000

5913/7992/10687 kHz, 16-12, 1025/1035/1045 UTC. Mangled looping

11100 79993 54312 16001 00049 00000 00000 00000 00000

Known F06 test frequency cycle. There have been a number of transmissions this month that exhibited the "mangled looping" glitch. As you know, F06 transmits messages block by block from beginning to end and then back to beginning, looping for a set amount of time. With that glitch, the part where it loops at the end is somehow mangled, the beginning of block #0 gets eaten up, and it produces a corrupt block decode (with a corrupted block #1000 apparently). It is especially noticeable on nulls or short messages where that glitch repeats all the time, because it audibly disturbs what you're used to hearing and produces that corrupted decode every few lines, and because corrupting block #0 may leave you with no metadata block decode at all; but it happens also on some longer messages. (PY)

There was also another ID 79993 message on 9300 kHz.

9300 kHz, 22-12, 1305 UTC Mangled looping, cut off mid-message after 2 minutes.

9300 kHz, 22-12, 1315 UTC Mangled looping.

11100 79993 17285 22038 02529

(See additional / test transmissions)

We end this F06 section with another test cycle.

5913/7992/10687 kHz, 06-12, 0745/0755/0805 UTC

11100 00000 13467 06028 02559
83038 24991 57995 89561 56683 46696 33440 98938 52148 05864
33334 92806 64070 31423 56010 06253 60055 97213 24739 01023
50761 41168 27401 82604 69066 29904 83200 52562 25511 04671
16124 94571 32191 69568 39819 17572 12294 08003 83591 04493
37478 38292 14201 39983 60258 44372 33142 15578 33605 42541
54108 35753 34940 70173 90310 73282 36709 07343 06356 47362
90726 67298 14356 22920 18478 16716 18964 54551 24563 11686
41030 23530 75480 60347 74551 41314 10917 48130 56608 17999
79757 86525 54985 19143 17984 71333 03152 59421 10656 61317
37284 06517 05158 13210 15043 93721 67912 33999 20759 64647
01731 36443 86749 98519 65995 08737 85417 89465 66863 34287
71854 78247 09682 22514 81608 59872 30789 36627 13325 15519
50902 29314 50925 42221 17278 22276 05038 78741 26822 90546
78347 51069 47349 37534 84554 85990 79176 71728 75645 66162
24229 20996 57140 25122 54860 45417 96025 05681 99561 34598
51041 30137 87759 00384 80029 55732 20875 00930 04008 13809
61843 57048 32682 56091 60283 46785 81064 56538 55491 89154
31892 42193 24456 52969 23538 51479 67086 51706 68096 43375
45825 10351 29328 05903 21851 15140 15162 37371 55046 82167
64429 98812 59927 05759 32532 61049 34709 72581 05711 94817
05717 52409 98628 77408 54300 01485 14932 14243 18469 39417
75494 98820 86412 85552 44020 59500 24110 65757 04698 66517
04205 25546 71594 97705 28337 10493 34476 86339 60118 99871
70737 99546 10946 04450 78136 20723 45830 64382 08018 34395
01426 08146 03707 36946 33468 58433 73769 21680 35785 95973
54827 11619 98074 28253 28000 00000 (0745z)
54827 11619 98074 28253 00000 (0755z and 0805z)

The 0745z TX featured a stray "28000" group at the end, after the serial-GC postamble, instead of the "00000" outro group. The 0755z and 0805z TXs didn't feature this glitch.

6957/9425/11611 06-12-2025 0900/0910/0920 UTC

11100 00000 24679 06029 02529
12819 78769 07419 94965 28349 69241 47212 47801 45366 36008
76847 12009 31609 18518 72352 36643 51943 14128 60626 31760
09472 77390 84619 38075 12521 48734 15491 31465 15938 54723
22664 17031 10154 47093 37738 92400 56428 72739 73187 84953
91723 91845 81774 92656 51653 86358 67627 83205 84924 25964

84920 31152 57729 83783 85081 97706 71511 18963 98472 82907
42548 68335 61490 04838 16791 14365 25000 85577 18391 21539
05066 48590 55362 58408 61900 57215 30798 47459 17971 48961
33109 10007 51209 45297 03684 98289 24252 41603 05444 31964
35652 07001 40705 81182 04013 48722 91798 63431 20948 20725
82879 46340 33849 81228 86367 73620 44362 28864 22451 56349
33528 72130 25098 96762 49519 11831 73006 36765 18915 41188
08934 48323 67447 93329 95844 07950 61155 90809 83309 22457
03891 76882 82594 98157 52104 33196 73887 70724 32860 13598
94077 37869 76004 48745 78554 62050 96438 01200 55430 35380
87418 75698 15662 23934 10837 14295 07468 33635 95407 31038
28518 64913 78699 65902 14303 48315 53959 62635 46133 78270
07653 00223 27212 87172 58669 32651 00205 26998 35120 16663
04754 50616 49672 32182 98367 10007 59365 25109 89135 13549
20819 27161 53682 09588 76806 32452 38830 88452 35105 35503
70376 20124 25566 60357 17445 69726 46355 35506 85837 58049
35277 94292 38834 59267 27149 05500 68857 53060 83135 63797
68472 73312 03002 94740 74122 20580 56208 54008 81068 30520
92794 25564 52954 15462 19986 48433 74432 21309 55454 26780
20305 66959 93187 02973 39593 58441 42882 98324 77997 94930
29250 00000

5089 kHz, 11-12, 0920 UTC. No transmission

7337 kHz, 11-12, 0933 UTC. Late start

9481 kHz, 11-12, 0940 UTC

11100 00000 89134 11030 02529
14955 54614 94635 31918 71889 03039 57760 63760 68350 52366
43320 05228 39254 00791 35339 16653 62311 92111 04051 80431
80624 72483 08434 07436 03515 38290 54303 21264 96503 29813
81424 87503 96397 50391 78050 80208 12402 15757 46346 02764
99212 63230 67132 05338 13014 75471 37375 66099 86328 98465
78875 28397 82649 58439 41578 11078 16794 07380 49956 34140
51916 51869 65896 26910 09130 44896 66522 10916 50644 45345
60398 74665 22395 74856 90554 82503 67068 26724 97760 84732
43484 06544 42491 21201 13258 09282 09020 35526 80687 62454
40086 42156 96797 90115 75557 13450 63488 77323 93535 78959
98712 39790 77345 54111 48627 28394 56837 40471 57655 23238
97440 64775 32398 96947 35413 48917 60327 51903 82720 28083
69206 61071 49974 59216 38166 67147 60882 87004 96377 19683
56637 59571 70268 54890 13681 11059 65202 47806 23292 53302
92575 91513 06421 43765 78252 83093 62220 21935 13299 21009
73702 31363 32927 43598 18964 69536 34603 63371 61410 32767
71259 76797 17435 48295 80532 54255 24957 10779 35976 39868
61292 65368 31191 15867 83772 04551 32794 11210 91552 70955
63176 59115 32052 83294 98982 33216 00460 27644 96253 17010
05744 81241 78162 86299 01601 60990 46289 09310 05791 13856
01365 94165 56276 91354 84428 38423 77627 75294 74331 60335
56111 46991 02525 16552 46916 17117 71073 35918 61931 58383
84823 24093 11544 08248 33676 18637 98869 33824 85886 99288
89861 76186 78348 83099 07743 16259 14774 59120 25180 29470
07734 42325 52663 21369 25474 51460 46505 61381 29461 40512
30250 00000

11100 00000 64823 11031 02629
29957 74090 64930 00866 68655 70265 27083 57380 76763 22375
64915 30127 44256 07811 77953 54599 12922 32169 52457 28476
78064 81516 41491 05733 27805 62644 84941 90460 80916 35995
92906 47579 09132 70953 40905 72626 54865 78193 50338 87822
80274 98752 52647 56594 08613 54544 60591 33735 43806 89973
95102 93403 79184 59361 41133 02142 31314 39848 30956 29094
59864 74487 78333 10631 59448 75182 12010 11542 34371 40196
81954 50012 92227 65879 36799 78546 17287 57339 95898 38035
09596 67711 64463 27166 00744 20741 65195 54340 82225 96345

84859 64305 07344 83853 59245 56677 52573 32615 44931 38548
49346 54650 51315 78361 22182 59046 31325 53245 94094 22775
54273 06990 45238 27626 09259 60853 35696 17941 12590 44395
28378 58832 17637 38512 72950 99580 50573 47864 36736 71900
20421 44891 93530 77744 76863 52593 06258 46355 14241 58268
64415 65243 45176 75400 62246 14773 92269 95868 28562 61054
71293 99687 44173 86816 64334 14448 07844 64967 06307 41652
36731 04502 33288 92132 12224 23479 66107 97744 07138 28722
27622 91503 55188 06949 17130 73382 48691 57022 90337 03929
75423 17990 18345 92909 30575 72622 24061 75156 64747 31122
19502 90810 53911 24694 92408 12145 02289 63670 15617 84164
14068 39875 77610 71150 94917 77909 57720 26363 69211 65053
94370 27064 23923 14468 19846 42068 15111 41384 59987 23996
97943 56970 22274 43423 66195 09563 20720 07113 12150 27943
11024 27514 42857 46355 34408 35723 13669 15954 93594 55081
65004 32361 09336 77613 73268 34020 30958 10479 51870 51046
99347 84633 63282 09248 85803 42886 28063 19011 55221 49533
31260 00000

5913/7992/10687 kHz, 11-12, 0745/0755/0805 UTC

10687 kHz, 11-12, 1520 UTC

11100 00000 13579 11032 03029
72346 02142 27488 09032 80672 32836 60157 37796 98752 30361
62599 20092 40655 91887 29826 51761 64470 77282 83219 24944
32049 76535 51410 51217 18442 25715 93826 98114 88238 57409
96614 87454 80982 96561 95605 28934 72863 37666 06020 87402
06860 64243 63600 07274 08528 96539 06859 42499 29629 78385
55115 65544 86763 39152 62039 53808 87225 91743 49356 76928
59241 52562 50418 33386 28796 94383 18334 09883 10230 68076
78324 61896 02785 54113 29013 38874 10306 29798 22330 02483
26268 63158 76708 11374 51321 69433 03280 70881 35546 91096
49734 71100 62605 87350 91556 61788 17972 44034 25301 37510
08432 39877 43611 31481 25041 30036 96666 41539 66728 32860
69734 36680 66728 30808 31533 17598 89037 21470 33077 29669
87071 79622 61697 51811 41725 16253 79928 09663 21006 45500
03945 86511 28445 95436 01235 30421 32456 23642 12202 80980
93847 23488 25377 64121 33665 32103 60934 28442 08544 75912
42192 21469 85784 14730 59793 29302 35310 70312 58246 28070
80709 50332 99516 20644 76555 03691 83359 57045 04166 68119
29074 61971 03029 96005 48377 17900 80042 69375 64069 77193
63782 39976 54196 01639 95979 55392 26384 52876 77380 57134
52036 82134 10206 61644 15082 92727 04362 60133 54964 73742
39622 98224 08552 28346 00949 21299 80665 45172 29140 96519
97908 86204 54010 47437 25474 89601 02263 62142 51642 10901
97271 60886 69634 51043 92928 34110 11516 44645 08777 86823
13838 06966 58588 50271 19712 63003 89596 46817 46987 07156
74549 18992 77234 66888 23793 58635 45221 68839 09555 97079
33554 30806 19627 42298 02192 28047 82625 73967 07508 07340
32023 32380 90585 47230 01140 62138 39449 87903 66275 96570
54896 79131 80174 93810 74642 19722 63012 60472 35447 86899
43088 23863 77916 79081 64407 38661 23670 20456 03357 39017
79559 00821 61638 71988 48622 49113 27664 73267 52466 64069
32300 00000

6957/9425/11611 kHz, 15-12, 0700/0715/0730 UTC

File 04433 (2218 bytes, binary contents)

5089/7337 kHz, 15-12, 0830/0840 UTC

9481 kHz, 15-12, 0850 UTC. File 04433 (2218 bytes, binary contents). The third transmission of the 0830z cycle mistakenly repeated the previous cycle's F06a message.

11100 00000 13579 15034 04529
12095 42178 18923 71428 88530 25256 81679 36408 41187 86218
69320 60906 55982 25914 17400 54309 12929 84818 05335 73835

73781 24995 84916 60835 32269 25030 73757 01790 87871 92649
 37126 31215 29066 _____
 _____90 68988 03663 93669 18031 92164 52901 74131 29083 78147
 71501 85862 57854 54907 31423 24182 33554 06539 18446 19534
 91087 96033 64784 94291 23843 72912 06014 41145 44369 20417
 35748 90260 88919 21927 56520 57391 26766 51318 50276 90138
 60243 16923 16948 54540 26453 13791 54521 29183 36561 63947
 79055 99017 13640 49320 08070 66070 14968 67029 55755 19241
 49756 61731 13435 30359 28209 14699 13722 68709 02879 94328
 01799 51195 88235 97761 62266 70335 69406 38302 75000 67279
 36006 58327 98445 42033 02000 72370 03787 18075 97547 70074
 08440 03555 43751 33682 82295 16267 46254 49781 25157 64____
 _____94026 28111 22913
 02713 75227 53165 83561 83538 70688 04203 92858 27802 17136
 43248 27885 30754 15021 68529 34648 71711 82396 52612 62467
 04779 02250 47809 34800 31686 80479 44819 86170 05207 56705
 95522 19905 36569 35094 35877 _____
 _____00 69111 03447 44888 17829 20815 00129 08472
 83404 20858 30602 59311 65821 53233 89910 2299_ _____

 _____00329 93494 05216 21332 54715 36949 06187
 750_ _____

 _____863 14243 94689 24189 30474 93282 76374
 22754 62576 93056 85916 95584 11228 53224 43458 276_ _____

 _____3 66825 76082 91367 56567 70298 21972
 42236 12053 23667 19610 39770 23298 82027 43477 26368 27257
 30029 91212 37169 09382 18638 11170 56601 80057 16054 00779
 28913 21051 08735 55389 2_ _____
 _____0 05192 34246 39678 64727 89888 92645 03012 21____

 _____3249 26101 33211 85764 22337 43179 07170 00247
 27470 78867 67642 72433 35874 49926 26632 78336 82552 81157
 32048 52001 85273 74073 29805 89778 34651 01057 53370 91795
 70262 29692 641_ _____

 _____09 70156 43560 81918 95355 20613 11398 83533 3_ _____

 _____00000

5913/7992/10687 kHz, 15-12, 1310/1320/1350 UTC

11100 00000 14623 15001 00029 61592 00000

10687/7992 kHz, 15-12, 1350/1405 UTC	File 04401 (200 bytes) empty text header
5913 kHz, 15-12, 1413 UTC	+500Hz idle carrier for 3m, no F06
20687 kHz, 15-12, 1425 UTC	File 04401 (200 bytes) empty text header

The 1330z and 1350z 10687 kHz transmissions used the same transmitter and carrier, which stayed up in between.

No message #35 found.

6957/9425/11611 kHz, 16-12, 0730/0745/0800 UTC File 04436 (3139 bytes)

5089 kHz, 16-12, 1555 UTC Cut off short mid-message
7337 kHz, 16-12, 0605 UTC Late start mid-message
9481kHz, 16-12, 0615 UTC Interruptions in modulation
 11100 00000 24863 16037 03029
 52352 31877 90217 20597 66262 90530 51939 86200 52994 86405

85650 42766 57417 24195 91565 50030 46542 55637 86738 60137
90451 52891 15730 89709 16367 47643 89879 34973 78052 46873
09885 03394 07737 61218 51366 60255 42745 06870 18106 13610
44024 66944 92655 86052 48741 23265 38990 46746 24171 94490
36899 02137 15017 41528 52808 68799 01398 26169 76710 76850
09652 33889 79899 77363 43165 96737 73190 52224 25412 77273
70319 49871 72381 99459 86201 95342 36592 37481 24743 48088
89869 98402 35891 05963 37093 59614 46607 78855 78073 46997
95461 80381 59767 64755 25515 11080 86018 12838 15202 31551
76994 52902 51880 48976 95527 08744 77750 65449 82527 12144
62824 61563 68675 30057 84627 13693 54569 34090 19332 68399
76506 98200 74002 22407 00116 35554 14641 81580 08990 10483
69721 97343 80538 86477 13897 03981 66231 96151 61577 05246
18421 44115 25049 83740 30938 78699 16838 31467 85644 93460
00998 25017 22126 44416 23013 93834 72725 93929 72995 54968
30083 17199 61882 12775 39399 32285 15295 46999 32576 39600
14770 37671 46457 81820 41043 00254 92317 60136 99061 29487
68832 67791 29436 75357 35672 26843 35987 99632 89937 39087
84113 86405 12618 87075 49633 05077 77246 46170 22808 49212
37960 93569 97227 99723 39134 25249 98244 85797 13790 16741
30654 42020 62959 88709 50287 85129 33195 63241 89230 58830
34406 21798 89338 20119 65223 00766 23733 65547 38062 85544
10987 20862 21090 89103 51663 42465 39261 25949 41907 04128
01640 17445 43778 67392 47164 89407 17008 59106 26061 47936
41864 04522 59098 44391 87828 89397 41843 65482 07752 49544
86141 09379 62190 11252 15986 33805 03601 31021 59961 87034
75092 08066 07468 57743 03414 67995 20895 04638 90862 41125
20947 51812 35816 83862 87291 60762 36554 16591 41732 15003
58076 76489 06092 78209 66592 08748 51984 11843 61378 44577
37300 00000

5913/7992/10687 kHz, 16-12-2025 1855/1905/1915 UTC

11100 00000 17285 16038 02529
47925 01283 01873 36659 08862 81660 31767 73707 69779 53595
72983 11638 39270 03278 47669 92117 55337 44037 14046 39137
77355 44897 52948 10465 37119 54545 31421 34364 16151 56648
23047 29995 41474 17453 89704 34947 17029 11613 54437 88338
32917 37169 20125 42921 19668 55634 13641 04624 39714 18110
60189 22977 33257 63372 17502 80849 60718 98876 24586 56948
08960 00603 44712 59497 53456 92686 07329 54556 93622 92777
78584 37400 03463 34052 15158 20402 64741 99826 81073 35860
74867 31709 32188 77205 46666 97214 98052 27017 42233 27800
15808 45303 08064 63242 95835 16463 03636 63300 23824 78386
40633 72604 28950 82110 75007 49700 72865 55492 19058 96193
39163 69310 65717 46932 28028 29251 42227 07154 85748 42216
35409 47553 23775 30374 55688 93186 07019 91407 32088 67172
16083 28396 55361 75104 13093 97750 11455 41132 65842 48670
72499 31636 09919 52519 37494 27438 53507 45606 39901 30483
54553 33759 64307 15935 24989 32168 39368 65619 41679 38909
99200 43743 68809 65609 30422 00851 21379 73664 47022 16931
24497 89471 60256 19620 48164 97097 35743 38449 22236 31824
54956 81056 61242 23020 23300 42310 53763 59754 91954 82285
96042 77606 85675 34016 74520 90111 53743 26981 26991 13257
86236 37239 37049 56500 62836 00171 41532 78715 26322 46751
55637 32522 97977 49292 45401 45436 77072 87603 02226 11266
91606 71493 99150 90203 92524 80558 33547 41050 08564 07193
85922 33997 03942 13764 49531 17419 06056 39879 10470 37107
95398 20690 82948 31379 74861 02170 29431 50507 60622 64302
38250 00000

6957/9425/11611 kHz, 20-12, 1240/1250/1300 UTC

11100 00000 14528 20039 02829
23340 19809 32026 01287 07536 58835 42288 52744 88115 90999

13398 79561 77660 11605 58862 09204 88168 29058 37778 97491
75386 80267 00586 01086 19953 30127 55217 52014 18803 22261
89608 13942 85252 73240 11478 24864 81228 27426 91347 55914
30047 14662 19708 40970 83207 77969 14293 56754 39627 63467
38377 58103 40747 89671 16061 98103 89965 38383 55452 87778
69813 34349 15702 75011 55330 05872 78826 47398 47068 43569
12250 88708 72155 99465 33004 43653 26871 93603 09532 70634
59156 20357 62023 87173 14510 71645 47221 37706 93694 19228
38642 38421 95700 23266 38141 78844 44400 59342 79763 84843
22329 81129 11819 72748 60035 60880 68116 49270 54438 74951
64294 36914 14614 26521 80188 29561 58476 22710 14171 07915
08764 48281 20401 69504 61785 03109 64921 52918 27352 95602
61540 60967 63344 09283 73441 12463 53342 84682 91440 77290
00761 83767 24857 74479 37922 29067 65907 37941 73514 34700
13578 79570 26862 71480 67903 04407 22449 33290 30601 57524
43138 96914 72975 07349 65513 92521 57065 95095 25794 26965
20932 04997 89752 27120 64059 35027 25065 95414 93777 72797
99554 94761 18672 06321 53738 05072 99888 24316 21138 18534
96299 85764 94773 65855 64445 63381 63296 90645 99201 90703
65172 14131 26110 67484 34389 57389 81301 03065 36089 13295
39958 02431 15587 85352 79245 24629 09204 35616 86655 68234
90357 08877 49702 63555 49338 25312 87892 76267 30216 58770
12926 52156 73319 42896 28057 57661 36710 72268 02551 95915
95102 90753 82171 02951 39665 84243 21653 53770 27134 19985
50068 32975 51679 99668 05054 49625 37969 18486 96818 01027
78858 47324 87872 15133 66141 80289 99415 26247 87814 14763
80331 63713 90277 56146 99702 58280 28908 64519 48813 95830
39280 00000

6957/9425/11611 kHz, 22-12, 1220/1235/1250 UTC

File 04402 (binary contents)

9300 kHz, 22-12, 1402 UTC. Cut off mid-message after 2m33s, restarted 10s later, then cut off mid-message at the end

11100 00000 93621 22040 08039
29956 71731 19930 52657 75697 16448 15654 52449 82764 03553
66168 60717 06390 52146 56683 27123 87921 09180 98015 60990
25229 95232 24186 63066 50239 85923 68244 48385 62031 71159
27256 14945 88943 59398 52383 37860 78114 19129 24998 93703
35911 74731 04779 44698 67662 98933 60701 37469 90162 69023
20895 96028 15346 79035 02270 13692 28608 25060 05873 73600
10184 05908 88903 52549 73034 06273 49328 87805 15668 54618
84025 11595 13351 72948 06413 82957 96123 60666 34467 71653
87080 79694 85115 73805 99331 33066 35890 63969 15102 54144
39819 13316 95391 48686 04472 28610 93641 56921 71103 91690
71840 27834 54833 04109 42514 22850 31800 66644 85022 91091
84218 48364 09621 83416 39297 24924 67703 97400 62924 90792
31683 70477 94095 75088 92934 63399 30981 15722 51241 01225
04612 71522 94179 64009 01081 77042 89893 44394 18233 69720
41672 14271 67756 44103 77790 67725 58622 12801 75036 32427
22815 78864 39373 66674 69274 49286 92157 84262 77012 44292
35372 74376 63316 82124 94293 08689 87989 44007 61042 52852
79567 48961 87445 24576 94442 93184 00659 65470 44838 33662
39973 18847 56563 20703 38259 30664 42493 09092 96465 15806
02711 02541 24636 56881 87245 11131 47854 27727 82344 26426
00577 58807 06220 43954 57780 86692 25204 87734 76358 54814
26253 16550 45216 57672 06737 16638 67487 45684 67449 10498
23327 32869 19781 36501 86695 74557 42987 78988 94594 07296
52493 53536 92176 68155 65170 77098 02176 35617 72526 77691
92084 59231 57735 23316 37528 70230 17463 74809 05270 90287
74405 92309 04273 80607 91493 50019 78277 98535 23694 38955
38311 53877 68345 62384 58584 82105 99962 53608 84194 76659
00462 70808 24094 47506 20720 48627 27739 98157 34434 11175
68878 38339 70184 76147 84895 74486 32679 04751 45169 45258
49080 77104 46863 94263 01372 97832 61602 97177 30700 61507

```

81460 85443 24621 32648 37706 33739 23203 19961 90738 03406
04902 49499 14648 59016 38172 66442 24852 00285 09733 20167
22223 76480 65423 12320 52172 75563 24610 12554 02099 05207
54051 71632 85660 07905 12182 86586 87304 77342 99740 97607
65478 68237 77682 21364 37978 16809 38319 50436 97858 14094
40610 73550 33352 99269 45561 96298 50222 65195 12654 67034
20002 93338 43245 37635 02546 60288 81880 13815 16334 83039
11454 74670 54975 95227 03156 66159 73328 71519 07134 98186
91698 42318 94829 99997 91532 66008 88896 13549 01060 50892
41665 29571 94304 44031 48075 95975 51925 29156 04018 53332
57300 00867 46027 77064 26305 07267 33261 31090 94221 78261
57692 62562 08214 81672 93474 92413 98803 74386 21394 81393
28793 40698 89366 76275 43060 35054 94895 65931 67676 71380
00456 01953 31775 26173 17706 63518 10609 47554 21503 71174
13243 87462 79630 79243 63309 99187 09188 01522 46265 67412
95579 49967 21593 62970 35040 91072 23385 39494 86624 49588
97734 14146 44620 14305 50389 99621 67296 25572 03089 79602
22946 49242 82041 44863 39145 66725 86954 32203 66176 35852
14081 33401 90543 02215 31695 66376 59535 65695 31459 25744
02742 31845 04101 54950 61499 02826 12838 07185 62171 87579
63011 87238 94220 35934 91326 91515 79000 26313 23181 88374
40208 61751 71477 05986 11938 53897 75394 19901 45261 99694
02525 57514 99289 80416 62834 61604 27643 37767 07880 80150
96262 06705 13703 74599 93515 09705 70872 63783 18518 42124
30080 45666 58616 03376 76743 64107 91975 53586 33050 1283_
_____229 71164 47193
13333 95116 90066 72927 42553 66136 80585 56822 89513 93345
53584 81091 79808 52358 00295 42698 77229 32021 89434 82665
49084 54791 37855 83074 69905 89009 40660 61412 11971 95261
71738 16981 96079 73995 90640 09038 01016 06613 16747 71366
55147 07190 56648 92958 58584 27042 95698 19499 09349 79295
89654 55332 31979 75683 17356 70615 32017 92714 80380 43324
24810 09447 60602 90818 12067 84011 71606 70637 04607 61104
64876 55227 14735 27620 76722 10281 66688 58620 26848 31373
98578 20812 04536 18595 54283 25745 03351 93848 88711 49899
90325 90524 34890 63847 20558 70208 06300 37700 33145 46143
32901 14998 89416 18112 54300 72250 39378 48427 18464 06310
27325 33731 59457 16762 72544 52275 52604 75522 86061 91387
70543 00833 09352 84787 88587 77834 85966 14463 12849 92912
02005 56783 29541 73996 56370 77536 98926 54008 46754 05579
42317 99640 82272 39790 95584 72650 58706 69009 27614 15870
57273 09655 47127 81099 52876 90701 46338 41093 42754 40710
54846 52808 31491 56597 02229 64111 33303 58830 12764 81133
77546 62729 80715 38452 28397 20584 99626 39297 54611 14242
44045 57958 10334 02886 27145 21596 12879 55665 82642 13622
28409 23888 44487 65862 01477 32439 22729 31669 89343 95134
99021 57178 870_
_8410 66233 30696 33270 40152 33129 58336 4852_
_____
_____81006 06994 15065 41335 03449 98817 79571
40800 40801 00000

```

Note the rounded 800 group count for the message body, and the two stacked "40800", "40801" serial-GC postambles at the end. This time the header chooses to acknowledge the second postamble too, with a 803 group count. (PY)

- 10687 kHz, 23-12, 1222 UTC** File 04441 (1091 bytes) binary contents, transmitter turned on mid-message and turned off still mid-message, no other transmissions found for this cycle
- 5913 kHz, 23-12, 1317 UTC** File 04442 (5850 bytes) empty text header, binary contents. Late start mid-message and cut off mid-message
- 7992 kHz, 23-12, 1330 UTC** File 04442 (5850 bytes) empty text header, binary contents Cut off after 1m, idle for 9m, restarted for 2m then cut off mid-message
- 10687 kHz, 23-12, 1345 UTC** File 04442 (5850 bytes) empty text header, binary contents

Big message, one single pass through all the 392 blocks in 9m25s. Unfortunately due to the TX issues, I was unable to get a full decode. (PY)

6957/9425/11611 kHz, 23-12, 1440/15455/1510 UTC File 04443 (3610 bytes) empty text header, binary contents

5089/7337/9481 kHz, 23-12, 1800/1815/1830 UTC Too weak to decode (presumably file 04444)

5089/7337/9481 kHz, 24-12, 0900/0915/0930 UTC File 04409 (1194 bytes, binary contents)

9425/10687/11611 kHz, 24-12, 1000/1015/1030 UTC File 04409 (1194 bytes, binary contents)

Note: 1000/1015/1030z transmissions used a nonstandard cycle mixing frequencies from two known test cycles.

5913 kHz, 26-12, 0905 UTC Files 04445 (2400 bytes) and 04446 (2600 bytes) empty text headers, binary contents. Interruptions in modulation then restart and cut off mid-message

7992 kHz, 26-12, 0920 UTC Files 04445 (2400 bytes) and 04446 (2600 bytes) empty text headers, binary contents

10687 kHz, 26-12, 0935 UTC Files 04445 (2400 bytes) and 04446 (2600 bytes) empty text headers, binary contents. Late start mid-message

6957/9425/11611 kHz, 29-12, 0840/0850/0900 UTC

11100 00000 13548 29047 03029

90904 04815 46614 40327 74792 13156 42899 44949 65356 60569

39562 59340 58203 56902 19890 45212 63333 34352 30883 42633

81352 72293 26129 78099 12599 86650 31414 86387 35115 63508

31539 38345 12404 41654 01756 91846 16914 73723 32271 08066

80171 20656 19262 00275 05527 59132 20819 07348 04424 06695

01283 09165 42142 94220 12388 26086 03962 40459 84658 69707

17658 08292 27510 37065 93296 47433 61459 65491 66241 53236

30916 90296 54328 96296 70975 72473 65132 02557 26648 88607

14276 88571 47967 00185 40699 81644 09426 44475 29855 79519

27149 14193 80738 29298 72270 18110 77710 30295 03935 39813

53037 90498 70363 36795 51095 91338 51430 47067 30172 40436

41171 95472 62799 17030 93677 16900 20565 39776 80806 38576

54329 11583 35141 88631 05790 21192 76647 23118 11338 06192

46455 88676 84125 07131 96207 63029 85304 67439 06415 40500

20359 58840 32249 54737 21468 36933 00218 55831 01846 56641

04153 84011 92996 02212 73955 07122 00808 11453 15532 14041

41430 98892 45356 81259 42891 07563 68103 54776 23351 44068

70779 14526 81971 76654 31803 13510 63314 00952 68454 08813

81208 03077 71152 26717 13034 74785 97973 29076 00350 60370

27876 73141 16806 39977 96035 82050 89283 79038 59769 68127

83188 98507 68438 76213 87848 45575 35816 39207 62937 69573

38317 62990 31884 32732 87554 82940 33178 10491 50641 59217

65536 61047 16694 02996 87841 68836 32955 50854 59814 91614

58985 29487 34339 65853 12367 77943 37391 50112 04335 19564

96495 11097 88797 00822 03664 82070 73171 39241 23730 48329

64466 47582 84051 39400 49065 26490 06479 32675 29635 42782

67556 98159 67596 35572 97882 39014 04605 17407 56564 07588

61468 62622 41712 01631 37950 00080 22902 70367 61877 52492

06551 85115 61016 89521 70139 54155 56129 86827 26220 86510

98663 08265 02147 34354 01508 53410 46463 68708 36252 37611

47300 00000

F06a

14369/16337/19633 kHz, 03-12/04-12, 0600/0615/0630 UTC File 44171 (binary contents)

14369/16337/19633 kHz, 10-12/11-12, 0600/0615/0630 UTC File 34472 (binary contents)

14369/16337/19633 kHz, 17-12/18-12, 0600/0615/0630 UTC File 72473 (binary contents)

14369/16337/19633 kHz, 24-12/25-12, 0600/0615/0630 UTC File 44574 (binary contents)

14369/16337/19633 kHz, 31-12, 0600/0615/0630 UTC File 64475 (binary contents)

13532/11123/9426 kHz, 02-12, 1100/1115/1130 UTC

File 44457 (1551 bytes, binary contents, empty text header)

11122/9064/6923 kHz, 02-12, 1600/1615/1630 UTC	File 44457 (1551 bytes, binary contents, empty text header)
13532/11123/9426 kHz, 03-12, 1100/1115/1130 UTC	File 44458 (1891 bytes, binary contents, empty text header)
11122/9064/6923 kHz, 09-12, 1600/1615/1630 UTC	File 44458 (1891 bytes, binary contents, empty text header)
13532/11123/9426 kHz, 09-12, 1100/1115/1130 UTC	11100 00000 69541 08051 00049 65147 23978 95407 00000
11122/9064/6923 kHz, 09-12, 1600/1615/1630 UTC	11100 00000 69541 08051 00049 65147 23978 95407 00000
13532/11123/9426 kHz, 10-12, 1100/1115/1130 UTC	File 44459 (binary contents)
11122/9064/6923 kHz, 10-12, 1600/1615/1630 UTC	File 44459 (binary contents)
13532/11123/9426 kHz, 16-12, 1100/1115/1130 UTC	File 44460 (binary contents)
11122/9064/6923 kHz, 16-12, 1600/1615/1630 UTC	File 44460 (binary contents)
13532/11123/9426 kHz, 17-12, 1100/1115/1130 UTC	11100 00000 39541 16069 00049 65247 13978 85407 00000
11122/9064/6923 kHz, 17-12, 1600/1615/1630 UTC	11100 00000 39541 16069 00049 65247 13978 85407 00000
13532/11123/9426 kHz, 23-12, 1100/1115/1130 UTC	File 44461 (binary contents)
11122/9064/6923 kHz, 23-12, 1600/1615/1630 UTC	File 44461 (binary contents)
13532/11123/9426 kHz, 24-12, 1100/1110/1120 UTC	11100 00000 95482 24029 00049 00000 00000 00000 00000
13532/11123/9426 kHz, 30-12, 1100/1115/1130 UTC	No transmissions
11122/9064/6923 kHz, 30-12, 1600/1615/1630 UTC	No transmissions
13532/11123/9426 kHz, 31-12, 1100/1115/1130 UTC	No transmissions
11122/9064/6923 kHz, 31-12, 1600/1615/1630 UTC	No transmissions
20539/18732/16252 kHz, 13-12, 1600/1615/1630 UTC	File 44437 (binary contents)
18357/17515/15693 kHz, 14-12, 1600/1615/1630 UTC	File 44437 (binary contents)
20539/18732/16252 kHz, 20-12, 1600/1615/1630 UTC	File 44437 (binary contents)
18357/17515/15693 kHz, 21-12, 1600/1615/1630 UTC	File 44437 (binary contents)
6825/5093/4475 kHz, 26-12, 2000/2015/2030 UTC	File 04449 (binary contents)
11572/10461/9356 kHz, 27-12, 0700/0715/0730 UTC	File 04449 (binary contents)

Additional / test transmissions

13532/11514/9426 kHz, 15-12, 0630/0645/0700 UTC	File 44490 (1942 bytes) empty text header
13532/11514/9426 kHz, 17-12, 0630/0645/0700 UTC	File 44491 (1715 bytes) empty text header
13532/11514/9426 kHz, 26-12, 0630/0645/0700 UTC	File 44492 (912 bytes) empty text header

I logged these two F06a cycles that transmitted binary .tlg files. Strange, I've only ever seen .tlg filenames used with text files containing 5FG telegrams. 5913/7992/10687kHz is a known F06 00000 test cycle; the second one is more obscure but ID 60993 does look like a test ID. (PY)

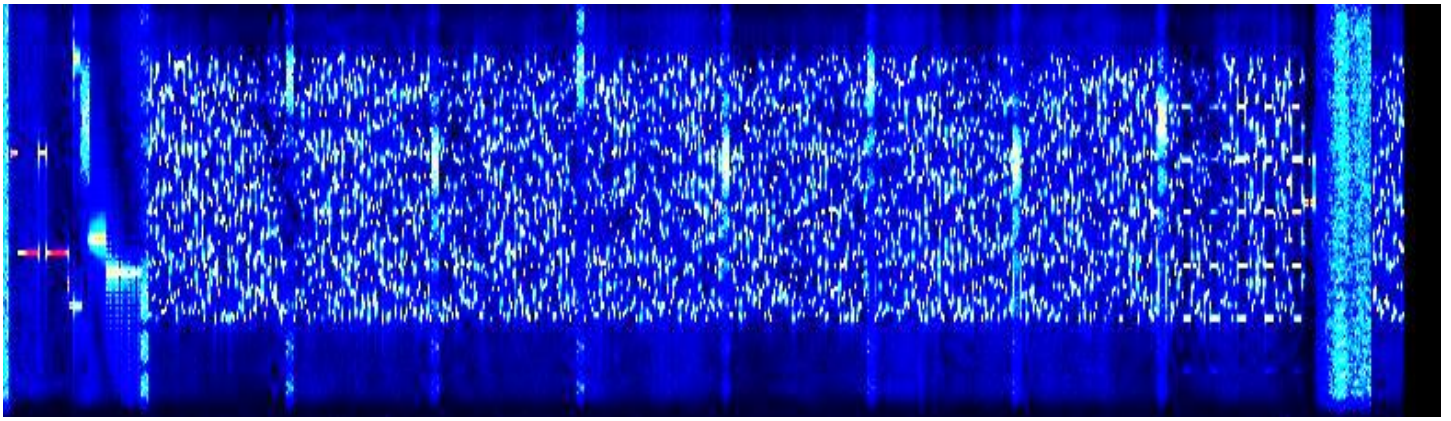
5913/7992/10687 kHz, 17-12, 1150/1200/1210 UTC	File 01500.tlg (500 bytes) no text header, binary contents
5913/5092/3886 kHz, 18-12, 0800/0810/0820 UTC	File 04336.tlg (2048 bytes) 44400 60993 84321 18004 00009 text header, binary contents

The .tlg filename format is supposed to combine message serial number and group count. This adds up for serial numbers here: messages #01 and #04. But there is no concept of group count for binary messages, that field is even set to 0 when the binary message comes with a text 5-group header, as we can see here in the second message. Does "500" stand for the 500 bytes file size? What about "336" then? Unfortunately I was unable to decode and extract the entirety of the 04336.tlg file. (PY)

13462/11448/9354 kHz, 18-12, 0800/0815/0830 UTC	Files 44424_~1 (1536 bytes, binary contents, empty text header) and 44425_~1 (1536 bytes, binary contents, empty text header)
---	---

F07

7526 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 2100 UTC
 7453 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 2110 UTC
 6993 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 2120 UTC
 6773 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 2130 UTC
 5748 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 2140 UTC
 5169 kHz, 02-12/04-12/09-12/11-12/16-12/18-12/23-12/25-12/30-12, 2150 UTC



16156 kHz, 04-12, 1245 UTC, FSK 75/500 UAL: MFA Moscow. Test: UAL RYRYRYRYRYRYRYRYRYRYRY

UAL UAL UAL followed by operator chat and a message.

11100 70103 95184 04165 04009

43917 51624 29350 97169 73337 70223 13325 39396 33640 04612

32505 56989 01413 49173 19455 69493 44006 19061 36209 03406

32153 92068 59399 94013 77903 81556 96335 55377 14135 39764

22545 11794 70610 31900 20980 37563 91558 17752 58813 84739

93183 33002 62776 03561 84558 87442 78969 85239 00332 22266

28075 81803 18694 93627 91930 82682 63027 74672 92373 52707

10693 93189 48320 61234 57376 47120 21996 57068 10444 65063

90269 68863 09735 04008 02020 35716 99237 01445 07476 97608

98077 24070 70463 00409 44260 80255 99506 95107 09611 88468

58706 35981 09335 18851 44351 07367 54647 50118 38171 79301

21912 08984 73228 52788 36715 84284 73270 56129 96316 33012

51643 27440 78828 20411 80548 32598 13235 61361 66684 41580

06608 55207 94149 86778 55458 31236 20586 87433 86141 46987

37476 94868 99877 06582 30531 38210 20107 91254 01126 75284

65724 19291 34700 78381 98635 77534 27069 09560 19061 91670

04586 65203 07033 27465 99080 94491 33524 40148 63538 21491

89639 14131 39416 25542 07317 60236 11577 59638 69958 62647

11744 11482 36453 92739 56440 36896 27011 32001 30325 20296

44247 71219 50892 41893 27963 78129 75441 56326 67054 50702

36280 12408 16986 98263 15078 68669 96267 17642 92331 84395

60377 56509 32849 90831 76557 81129 93217 72260 47929 90683

62179 11621 6036+ 45357 69851 80376 50539 00403 26736 77297

18635 63324 78447 45865 34084 16410 87105 24972 07832 71802

75321 12615 29536 51196 93723 47257 93152 07545 97949 36554

59325 30766 46056 88159 28040 04746 52270 22194 19963 07796

58029 70235 80914 73755 06240 90355 20904 55929 29705 52982

72171 61037 89636 77244 79667 45377 25217 22494 32419 90380

00118 64694 73201 99747 56945 12353 96973 85359 15520 41699

45501 34136 75949 55783 21603 73047 12418 97187 71476 74456

68645 69046 08514 68976 90928 44042 77068 58035 59736 66090

79597 43345 05763 74376 15618 15438 21395 04451 05922 68484

03533 46057 2?000 33560 88687 62394 93473 47565 66306 00478

93893 99964 81257 47320 25147 24561 61411 11581 52098 28464

31257 35408 58993 75459 97490 66132 26700 65958 17519 42518

82704 80718 42021 75247 22291 80520 05998 26336 24361 78985

13792 17158 01113 30732 96437 19774 19423 02049 09863 11244

99177 16271 75310 95619 33972 91057 34468 23299 60634 09745

74993 62430 44202 93975 62394 02059 12385 69779 39195

[illegible][illegible]

59

16156 kHz, 18-12, 1300 UTC, FSK 75/500 UAL: MFA Moscow wkg UAG: Russian embassy Havana. Havana Not monitored

1311

[illegible]

M42b

Unid, prob Russian intel. Headers like .. 1 ? 326 39 9135999999989 91 35 9899999 ???? 3 ...

RIGN wkg RWKP: RWKP DE RIGN QSA3 QSA? ZZC CFM NIL QRU R622 2038 K NIL SK

WL9P wkg IMTA on 6905 kHz, passing msg 639 100 6 1244 2721 with =50= and =100= separators

IMTA wkg W19P: wl9p wl9p wl9p de imta imta k. qtc1 zzc zvp ok slv r634 1254 k. nil sk

SX3H calling F5KA without succes, asks F5KA to QSY 05219, connects on that frequency with QSA3, goes to F1B 50/500, start sending msg #446 (446 100 01 0800 1276 ==), aborts with 50/500 revs, tries once more with header, and abort without further procedure or follow up, - prob due to strong wideband data on frequency

OJ8K clg 5NT8 who do not respond, OJ8K goes trough qsy procedure and give up at 0817z.

[illegible]

GIB9 clg KA9M: QSY 67000 at 0804z after failed attempt to link up. Connects at 0808z; receives msg 823 and sends msg 0812 fm KA9M, tries to send msg but is stopped by KA9M as connection is breaking up, GIB9 then changed freq to "63773" at 0819z

[illegible]

YH4Z msg 464 100 21 0800 4321 = to 1E2P

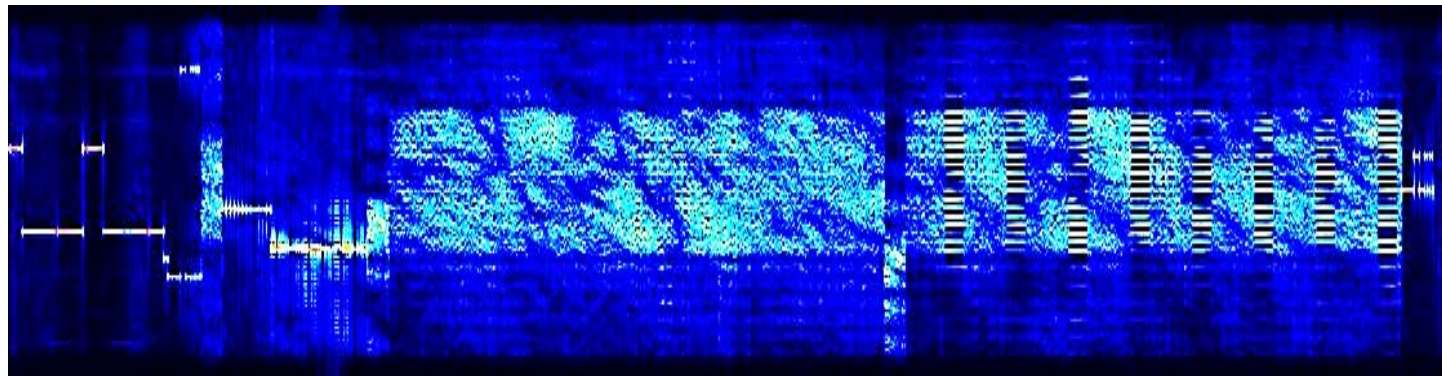
F1LT wkg LOPR, opchat: QSA NO QSY 66756 (rptd)

FILT wkg LOPR

i.p. CFM NIL QRU? K SK

P07

6986 kHz, 03-12/07-12/10-12/14-12/17-12/21-12/24-12/28-12/31-12, 1500 UTC
6774 kHz, 03-12/07-12/10-12/14-12/17-12/21-12/24-12/28-12/31-12, 1510 UTC
5853 kHz, 03-12/07-12/10-12/14-12/17-12/21-12/24-12/28-12/31-12, 1520 UTC
5336 kHz, 03-12/07-12/10-12/14-12/17-12/21-12/24-12/28-12/31-12, 1530 UTC
5082 kHz, 03-12/07-12/10-12/14-12/17-12/21-12/24-12/28-12/31-12, 1540 UTC
4609 kHz, 03-12/07-12/10-12/14-12/17-12/21-12/24-12/28-12/31-12, 1550 UTC



Q26 - Chinese military

6278 kHz, 30-12, 1332 UTC. Chinese voice traffic, followed by Q26 and PSK databurst.

1015 2164 6772

QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?(YXYXYXYX HR TRY LL

4936 2742 4538 1178 2090 2727 3114 0869 0000 0000 6075 1221 9736 0290 9464 2300 4581 7242 5213

9741 5748 4693 7837 0190 9353 5814 4992 3478 4738 ? 8918 1894 394+QYUP 6012

4567 6575 6902 9472 7952 3070 2660 1015 2164 6772

QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?(YXYXYXYX HR TRY LL

4936 2742 4538 1178 2090 2727 3114 0869 0000 0000 6075 1221 9736 0290 9464 2300 4581 7242 5213

9741 5748 4693 7837 0190 9353 5814 4992 3478 473 8918 1894 394+QYUP 6012

4567 6575 6902 9472 7952 3070 2660 1015 2164 6772

QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?QSL?(GOMROP

XPA1

13465/12165/10265 kHz, 03-12/05-12/10-12/12-12, 1310/1330/1350 UTC

412 412 412 1 412 412 412 1 412 412 412 1

00875 00206 38832 97279 95229 65445 21940 98555 42074 83170

89794 58892 85102 56822 33780 69556 78736 54952 77758 08155

50513 13708 51687 30516 99535 03594 99591 72865 44564 00687

22622 98751 82969 40161 17744 01327 01571 71642 38892 70649

64259 33051 53197 42072 29013 68198 43402 95891 43154 16356

92344 80148 95127 05748 67862 02496 97528 26638 63611 41420

72039 07370 27780 47344 68350 10418 37702 56147 39087 43333

83051 73729 80523 20540 20059 20224 26196 71041 30625 38732

91123 58222 48621 81972 64301 55452 09774 51483 93149 77194

50126 89557 11782 93323 75114 95361 91301 11045 16935 17450

17944 11772 88295 09826 13445 65694 58664 50905 74750 07187

43545 48856 76056 37257 39324 79910 73572 18034 65904 34776

52608 99895 70349 47744 35823 70200 36997 82647 44334 42869

16044 25574 78863 02809 37921 32800 93171 64144 33921 68237

87676 89986 88031 12618 49456 77690 22505 68870 99461 92834

32517 55104 74352 73567 85088 13190 49631 03438 14026 44589

82846 99888 46349 46918 55686 34268 10765 79679 07965 45423

55049 67580 54570 15672 44555 49513 96328 01966 67724 72512

86221 71968 65027 10166 35667 00315 20028 48827 91781 33031

11874 07010 46108 77527 51296 59514 21021 65178 63476 39383

84357 62333 24646 99311 57903 40249 80251 72313 20755

13465/12165/10265 kHz, 17-12/19-12/24-12/26-12, 1310/1330/1350 UTC

412 412 412 1 412 412 412 1 412 412 412 1

09115 00156 69113 06084 23462 67817 97747 62790 92344 18526

46217 92121 37791 03307 47767 93653 14876 22151 96279 45640

57966 36120 57189 21484 07932 97498 60351 23003 59819 44926

67726 38776 39629 11228 78845 19134 07754 50817 86860 15916

20941 09868 75264 33974 42778 91510 24027 41076 39831 11313

49772 89707 22469 87203 53660 79414 73629 75127 70083 69664

62822 23679 50777 07009 01925 89462 59051 61029 88166 17958

42746 75427 47599 47735 30114 74712 06235 83814 51433 93919

84047 91261 34221 48222 42348 87233 10974 21275 89720 56770

72516 30601 21944 18069 67175 47638 51407 27517 25312 67422

33485 76828 25423 55018 18492 15404 82820 82596 86960 83857

78741 03626 49027 88640 54265 29307 54291 82151 66508 58959

34240 31677 80633 14559 03700 59457 86752 46084 22676 54967

64206 26535 59614 92547 30481 61592 90282 32645 02153 18403

98605 30743 05428 58234 79617 89593 54764 88497 49125 50193

28280 30679 36390 05152 49353 58284 15508 44529 30557

13465/12165/10265 kHz, 31-12, 1310/1330/1350 UTC
412 412 412 000
08926 00001 00000 40662

XPA2

11493/13393/13993 kHz, 0800/0820/0840 UTC

11493/13393/13993 kHz, 01-12, 0800/0820/0840 UTC
06630 00001 00000 34261

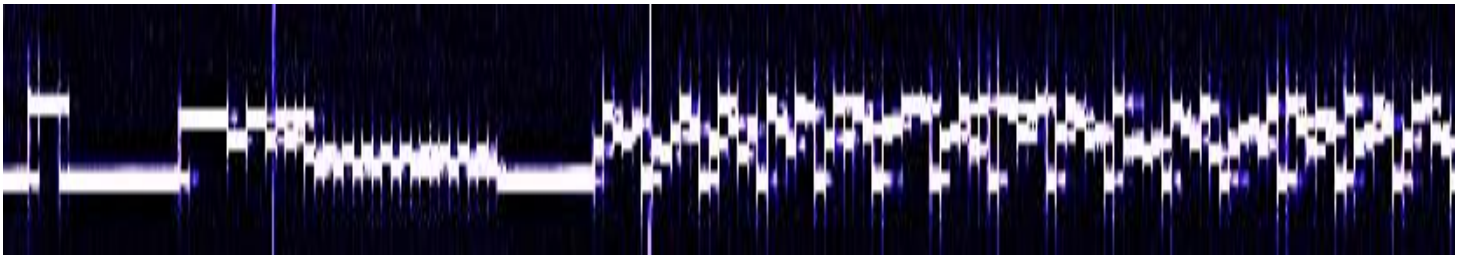
11493/13393/13993 kHz, 03-12, 0800/0820/0840 UTC
03142 00001 00000 32657

11493/13393/13993 kHz, 08-12, 0800/0820/0840 UTC
07776 00001 00000 37666

11493/13393/13993 kHz, 10-12, 0800/0820/0840 UTC
08594 00001 00000 35671

11493/13393/13993 kHz, 15-12/17-12/22-12/24-12, 0800/0820/0840 UTC

00463 00384 31548 05935 88893 30729 89768 66328 02716 31408
99454 10604 47497 54872 56915 38117 38264 84926 50013 07614
52643 05133 53610 70176 57396 99604 53682 77970 18456 55027
28490 78044 43284 96446 18258 20819 41638 07566 01487 27775
68539 39615 29655 56763 29212 06564 05050 22421 01410 96675
54938 36359 04266 54467 19667 48651 94398 02030 30207 42827
22260 29062 15066 81074 29110 86586 69959 09047 01855 33032
05712 93789 22778 73608 86666 19501 12594 92024 22374 18484
01267 98546 73904 64824 26589 24188 23815 79094 31174 16126
56627 24849 92780 37260 78262 21454 92875 75506 47689 43238
72618 02411 88291 61639 52296 49634 86511 21934 67775 32824
08902 64435 98679 93924 61698 28946 81609 61719 45132 15884
14049 60440 02150 90000 92736 95866 18498 60975 93467 22871
97344 79705 96110 04981 83008 97532 80401 13447 69813 80032
34892 31745 38475 93286 56048 71956 25390 32256 97840 88747
03775 80860 34082 07744 55980 38994 28447 45396 94133 38434
64058 10420 64685 40662 21358 56172 05745 94710 09683 71553
31865 24771 80801 25819 61468 49114 84311 44577 82509 88706
18655 86241 99393 91716 12457 19229 63121 34600 04648 58634
93494 03690 67951 04584 12618 97120 51854 82008 97057 70058
25509 93624 16520 99461 59110 57451 78906 67465 88795 74532
80027 10459 61619 27728 74430 21237 67224 18159 39437 46942
16897 57765 64205 78999 13474 17313 19896 28253 63311 69275
35398 72170 49645 98626 57364 07480 29451 19490 59943 86493
55653 16421 04759 43269 78925 37196 64435 86432 08830 54586
98638 55076 42235 21371 29752 45816 64052 41425 42608 27130
83024 21996 41281 36172 98108 41199 91610 46281 65798 67983
52739 77365 99315 48646 95871 84879 48626 69948 86523 04052
92012 33221 52282 11529 17964 97805 26737 33179 01931 83944
14919 02853 93061 43621 78104 72355 53673 10001 08927 64187
96943 56725 60995 35027 42863 57202 92484 72696 23704 00064
38513 61033 20280 94240 63059 97951 49106 16193 97992 03737
92253 74001 83846 92862 66106 18705 45836 49592 40767 19030
92257 98214 92619 25875 06842 80022 44570 57733 25449 76632
92887 11079 25750 83545 61622 40864 29987 87766 53804 72424
75112 71806 42171 27205 68102 49376 30501 99020 13750 43921
03787 70568 65835 77204 44622 23272 51911 83127 05618 25802
10147 84491 26613 77425 78195 82158 01398 61758 18132 07019
23808 41537 03016 79664 55949 10747 41631



11493/13393/13993 kHz, 29-12/31-12, 0800/0820/0840 UTC

00939 00641 83236 40546 58995 81914 14223 91189 61337 48305
26124 77819 81609 06587 74048 07620 72774 26088 6075 76928
10535 67741 55303 07553 44341 55702 58056 20905 10332 84462
93326 15823 74889 39091 47286 48247 60036 16707 54910 04910
91964 09829 56661 69694 59873 85409 05191 64650 95333 41800
00150 66959 63481 35282 33841 70431 04231 56739 46214 29121
84544 66246 53066 89359 12728 11825 43926 85276 54844 42585
61176 27635 51192 08134 32524 97319 32428 61319 08322 15302
37506 03845 48084 93541 28255 05564 56198 60053 31333 74894
72960 83389 17457 41158 09496 24814 56754 59631 51218 44230
27909 98620 79183 75040 72963 63199 39397 15023 66060 07637
35095 95095 37386 73379 43709 99704 96642 43093 39909 05154
96758 40164 73372 05257 05328 06488 05525 51286 99287 74833
62836 21046 84684 35423 29782 65110 99673 55441 46133 83104
67513 23946 13886 03611 04363 12589 13740 82631 56974 28177
31134 49796 72615 80068 82279 99225 03483 92036 98502 76803
94920 24610 85794 13730 92927 07128 54098 18170 66607 22794
95433 18731 29379 62728 66357 81437 08578 83225 03740 58021
08937 60890 46716 63443 53383 87112 21723 52073 10606 74750
81819 72452 58478 78273 69907 90979 10768 05253 33477 91836
14189 06977 87660 41552 27045 28539 31799 22769 62611 18210
63067 90910 59274 59825 33764 36633 75381 50130 13288 00663
34102 57310 77043 52087 10007 81403 51496 71786 25114 41453
80030 53755 22796 09293 40378 34273 17566 74231 65209 67845
61616 83949 55711 39570 51733 69247 32690 88392 36636 84619
67371 86144 62318 99722 42888 88019 88390 39581 09674 36858
18364 05708 33384 44672 88402 79653 77966 34928 08409 57560
63386 80499 94307 61574 58231 39449 35381 36789 60143 69596
11645 46947 74190 00267 81453 80968 05488 93002 27277 07640
49666 11511 65476 87399 54292 16745 41390 08290 93304 39879
18076 06672 45777 67434 98959 63485 08429 80226 68546 82915
51320 28140 46023 28148 43105 46532 56609 69513 97229 12360
34127 08652 21163 15491 09466 12166 93957 67842 61537 82619
90863 68817 82189 33351 68014 92275 23842 24442 66670 44658
54818 90340 71231 82188 96760 97478 22253 07053 37607 59313
09278 75359 44856 12208 60509 16327 88534 11332 62191 91280
50714 76666 90798 71706 75414 43808 38776 94995 26340 98455
99203 57391 38718 53444 90847 32688 51834 91497 12975 25098
36808 00211 56420 22751 02232 34978 01858 56924 21910 50135
26249 72988 94450 41168 74108 88295 52037 53558 91186 34777
98058 12526 87811 84388 40145 40653 00900 59302 88118 67774
07205 42325 51183 22443 67949 14927 38385 00841 39202 76625
16684 47825 74257 13036 49595 49593 37664 59344 55845 58826
96859 19608 89601 85005 86269 48870 21176 24722 90333 29234
55449 51876 41200 96110 93572 24827 45078 86324 64288 30580
25324 26095 32237 68083 78264 33832 84041 78057 68494 60690
11845 06567 19661 60120 27646 79838 09984 13881 48737 46991
48512 98646 26839 26907 05084 62640 66003 38272 22991 82212
06607 62378 80782 66945 20331 63414 78319 37597 47041 04163
84716 21707 52405 86548 55877 56826 72031 73695 38163 42055
79034 29120 91219 90974 79074 41985 31843 40901 93441 01879
66748 02619 81635 79719 17712 63477 21828 95360 52663 98233
59555 85832 10213 78509 54851 37422 09933 93003 96792 44881
25964 84752 73665 16486 90509 93817 03938 66018 79560 88549

32376 31550 48825 59757 86508 53238 76960 38699 66605 35245
49156 88717 43053 57235 62889 17437 18175 32161 63186 18367
31551 67787 16186 81755 65835 69892 09292 73425 42942 48951
27311 06666 39972 94191 23936 27393 43823 57503 37461 76883
64741 62072 29402 83802 30627 22493 75669 58050 61996 22862
80287 87436 81767 39684 92604 71012 17000 03125 31086 21491
44421 78615 74737 44505 55872 73473 25764 06846 95975 09751
51164 44262 38302 06246 93849 62564 27505 53730 82666 64033
16778 06360 93362 40133 87192 73823 21145 35765 36296 50789
26067 24881 46599 36654 33052 78887 64535 66268 08095 14556
98287 03872 53453 64362

6984/5884/4784 kHz, 1600/1620/1640 UTC
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6984/5884/4784 kHz, 01-12/06-12, 1600/1620/1640 UTC

04089 00146 31413 42951 99381 12312 45477 42608 13170 36213
79233 88754 70358 71653 71873 10999 84398 98927 15656 88800
16566 11585 58767 45456 51715 68922 08541 29019 04487 54020
63883 35306 88351 15553 10717 18504 69960 59239 55924 46357
15618 61885 60044 67350 65380 37088 40934 82301 45305 15769
92800 60543 58528 58785 06251 36702 07719 12626 63500 38923
34744 28300 62253 89415 22501 84189 31338 04530 09616 58754
53001 48086 43199 38772 05333 15560 08614 97270 85948 69181
82737 40835 96052 81002 56326 35519 76342 59602 78842 53986
12565 30099 41658 76483 95337 25067 95828 41648 51164 32406
73496 82189 45519 66659 68928 85183 71269 94214 73614 76337
86336 30745 16472 75426 06605 90190 28314 29342 47009 73413
84107 76028 34496 01281 08604 07706 69159 30629 78083 83190
79724 23580 53706 55926 01380 70681 54912 00437 83032 09562
01352 26582 34442 02502 95996 97417 84676 79920 22753

6984/5884/4784 kHz, 08-12, 1600/1620/1640 UTC

09967 00001 00000 41267

6984/5884/4784 kHz, 13-12, 1600/1620/1640 UTC

03197 00001 00000 35264

6984/5884/4784 kHz, 15-12/20-12, 1600/1620/1640 UTC

00470 00196 69998 58077 17656 15929 22249 04089 87600 52405
76691 89302 91621 80148 46021 83398 74169 48854 93233 30333
41633 22050 46097 02377 43095 12105 87914 78658 24259 92621
03929 83229 57925 36441 54701 39062 72021 90601 58134 63927
54842 98541 45860 89508 60533 69612 37558 53285 43932 80606
69631 35951 74653 11113 34240 15044 05702 89109 95079 66082
39885 06765 08122 97917 30445 75978 93030 25074 01156 28942
15484 42494 06832 73088 73552 01942 55714 97629 96700 51579
17885 43063 84573 85263 92312 85037 83890 53749 74910 33779
08205 66633 94849 82044 61374 57212 38363 00982 42640 41986
53176 39343 47842 79851 77679 76371 34913 53474 56679 16786
61602 29924 01457 50393 52033 48908 72010 11176 28798 45204
15739 78297 11585 84948 46860 13609 72650 92314 04465 93037
70208 39805 45902 91399 12643 56605 18210 61474 12524 78496
63174 94695 51215 61558 93071 02154 25555 97567 70415 05723
96899 43497 56896 01286 48237 57504 80677 04354 20688 57350
82433 70752 20252 33025 04109 78906 45329 64531 67749 68278
67895 37806 36432 52353 81145 03801 54157 73950 76143 32455
60085 88862 30654 72293 16448 40419 44390 72986 81832 77435
60249 56796 84573 44207 06544 06456 13855 81953 41766

6984/5884/4784 kHz, 22-12, 1600/1620/1640 UTC

06560 00001 00000 33664

6984/5884/4784 kHz, 27-12, 1600/1620/1640 UTC

03247 00001 00000 35657

6984/5884/4784 kHz, 29-12, 1600/1620/1640 UTC

00758 00064 59648 95076 96285 00969 24978 17333 26966 28172
07503 85375 34880 54006 06147 79776 95419 29364 53144 63098
46198 86717 37948 15227 59347 81957 17809 67946 01989 41523
82484 09966 48363 59666 15687 29617 86714 46439 86926 46644
75861 68996 47204 34734 81402 50013 80250 29220 10331 17616
59530 41471 85781 37768 08155 33991 79475 55566 68199 59325
70235 37835 56403 23705 77372 58093 25042

9265/8165/7665 kHz, 1100/1120/1140 UTC**9265/8165/7665 kHz, 02-12/05-12, 1100/1120/1140 UTC**

03288 00233 21230 57595 80642 35600 29230 20420 31961 03283
31716 25166 98307 43746 67254 75903 15005 43782 45595 79912
57100 07518 09691 59638 58999 46764 82245 39469 27908 71820
16098 13212 22983 41100 93620 35704 30580 40261 25408 30679
19289 61495 31675 37872 66485 38602 21636 60818 26300 69187
27237 63479 85135 56176 62942 60853 93552 94489 49077 50535
15235 88563 03530 24976 48343 54590 24660 92002 62057 92176
06522 54793 58759 58900 78778 34260 23192 47210 27678 69062
95399 83170 48707 69857 93682 76193 91795 96064 75472 58665
46529 10554 53413 40557 64788 15030 16170 92696 20598 20741
11724 12741 80421 11544 59456 27997 29371 18015 01173 89827
63849 43427 67105 33259 29453 19223 09470 92315 87392 29052
39332 63988 21201 99027 00112 86196 15894 31234 55317 95291
63076 58525 82757 26614 56450 65029 19123 29730 02254 12764
40779 65957 07142 41661 30916 26213 03156 65722 36514 40158
92693 21141 53536 61053 25485 79823 77850 15837 26865 40126
05072 02285 86235 68995 83029 55178 53272 42780 31678 14364
88610 54425 03255 94631 66816 15745 00078 17198 20323 52781
50075 57886 60293 84212 80716 30841 50283 81682 41687 59843
06937 91689 94539 07585 27529 27930 78275 45048 89221 31514
35029 60170 86556 37323 69040 53906 52555 30587 99661 53971
00272 98190 55806 84635 91362 23724 91642 07133 92343 84510
51661 77506 15907 71115 68510 16729 71450 88828 25096 53024
46404 62114 06862 39269 71471 10260

9265/8165/7665 kHz, 09-12, 1100/1120/1140 UTC

06026 00001 00000 10140

9265/8165/7665 kHz, 12-12, 1100/1120/1140 UTC

05492 00001 00000 10140

9265/8165/7665 kHz, 16-12/19-12, 1100/1120/1140 UTC

06276 00396 57432 16549 74206 58684 88742 94159 73583 10677
28232 24289 85892 52453 56441 81888 10060 07214 83865 48844
70559 61320 56300 83730 96447 02716 27060 01362 72803 13035
57988 24628 76802 78813 21835 18324 52633 36368 81978 94436
67524 24980 65732 97857 06020 66469 79442 76432 35692 50925
40825 26586 78921 52164 87719 72223 54091 08206 66045 37105
49869 33261 52395 18419 26643 10805 10092 59659 82846 51445
98975 87254 83675 77047 40451 53047 68696 88352 50195 73206
05046 41377 16048 76196 28915 99854 87756 99674 18781 28309
96335 88097 86418 26199 86041 96606 01574 75767 46774 91315
74376 57673 43159 72768 60630 95501 03653 60673 13150 89123
50854 34886 37414 01536 66828 12064 24516 05615 49581 90730
00966 30511 49933 04519 07858 63261 74733 71010 89271 97178
47111 42898 95771 39993 11829 54175 79786 25409 05390 75418
84875 60170 24938 47988 90152 68702 60533 04863 40650 15981
57933 10858 62179 32722 65432 10709 14827 37735 70098 44525

74059 88437 81872 55835 10986 92787 33915 65876 80343 78217
05811 40595 89477 83364 81667 34426 44683 04399 96946 85788
46701 56056 41785 01556 48231 44445 79595 81949 52001 28626
31724 64652 08743 98384 64692 24401 41000 91171 20790 80799
57134 07987 64975 14444 48657 68321 66136 16605 24095 75703
47241 89481 34534 50638 58768 48673 14055 65499 23502 14773
59929 46287 71500 74611 41478 32228 79021 55759 00373 57505
97581 47975 76309 57209 26098 90322 97583 04574 78586 16711
82381 65012 12664 54440 22586 70079 31191 64621 67054 77235
47929 25965 70219 56562 87840 51219 02632 69179 75142 46620
20715 95512 52319 04378 44263 40158 75877 67154 34616 37244
42753 02893 71976 00006 53043 40258 96214 77865 44859 38368
70232 86591 04299 94420 31839 91850 21982 75329 18332 46875
57700 58446 53101 33183 90837 85343 33784 70251 13228 09190
24473 74075 37396 55551 72489 81836 81608 69561 14896 51509
28031 51757 87278 62921 93387 71001 64855 34218 69444 50881
67872 05136 91374 11342 13279 39733 20933 26937 84504 49498
03388 73453 75585 58449 61564 38374 41527 68165 64466 42142
46807 47709 02094 79472 83551 85713 75124 15356 93932 39814
90759 36078 93757 90326 81260 90664 42734 40750 30240 04139
94830 26437 27168 99182 68596 86536 52614 41956 96637 09036
82965 68068 71337 77370 36354 49571 73815 29003 07731 57966
13443 68967 00048 91110 10099 36160 16277 94622 13690 51633
92766 66866 79987 81094 36802 45862 18133 79417 30430

9265/8165/7665 kHz, 23-12/25-12, 1100/1120/1140 UTC

04460 00242 26194 29350 30718 13138 25691 33782 77725 66317
44880 94661 71104 20519 36434 62148 83750 07329 47277 68854
71878 23120 84028 92796 03661 97238 91439 44216 94688 06317
40085 89827 18143 85737 04311 16240 46200 56256 50247 85527
89047 37010 99764 61425 47184 52870 26301 47847 93921 24008
43495 40835 16761 93539 06846 26376 71426 77151 10993 08435
32660 99107 62701 68499 81846 49064 37121 48145 76073 02586
02149 31576 17101 64270 15585 61265 73284 29516 38941 34845
61446 41429 25070 61117 93775 81151 50204 08896 44711 77904
86287 45385 67085 87345 41730 36206 84672 91883 36522 50589
09344 67464 99931 32947 20418 16061 21892 01046 18603 86847
71952 83878 79892 62907 59086 35335 53932 73728 14215 54924
96090 11525 47961 47877 45211 91532 34504 30836 32627 55516
16944 34929 33684 19677 78549 46006 62001 86878 60349 71696
22322 33425 91174 78479 95634 78549 83338 08199 23205 55684
77654 60569 59530 66092 46304 00646 11362 15715 97157 75031
29821 12109 08460 58834 91956 73999 27796 77771 48026 24288
92296 51541 11234 09310 02646 27631 61110 57056 72716 59826
36453 90331 18582 07987 31014 37760 74392 04303 51228 47174
87512 19623 90955 95553 01599 87838 31658 24551 96986 90977
17976 01354 85805 71582 96752 97688 31774 03331 88757 08615
81823 03554 36518 73085 24055 01426 87227 19674 50554 03426
85402 98466 23581 10944 93505 67011 90150 80322 44408 08179
68094 10784 41486 54623 44030 05962 52657 12325 84929 61084
00532 65847 15886 24704 56001

9265/8165/7665 kHz, 30-12, 1100/1120/1140 UTC

03876 00001 00000 10140

18391/17431/16146 kHz, 0910/0930/0950 UTC

18391/17431/16146 kHz, 01-12, 0910/0930/0950 UTC

01755 00001 00000 37256

18391/17431/16146 kHz, 03-12, 0910/0930/0950 UTC

06360 00001 00000 32664

18391/17431/16146 kHz, 08-12/10-12, 0910/0930/0950 UTC

00195 00451 23415 42060 06202 56198 74237 47767 37169 70700
57817 62676 77722 55521 19468 76220 82765 51438 69960 62567
42504 12315 76566 14964 94236 47253 69326 65094 65525 95685
42781 94518 49569 97062 79516 28285 51377 67455 75572 10329
77594 73029 80126 94649 48330 91046 89001 30757 26805 15952
66319 60800 59917 63652 56519 95586 62686 17314 91078 60794
54579 55078 60924 31005 31102 46772 15952 80239 60090 51451
25635 31056 15162 64192 45846 58642 00487 88773 95011 41541
43921 57159 11394 82960 87521 99664 17486 75619 53445 64223
93972 54445 85542 43568 20215 74025 61222 47262 28710 00926
71954 20754 08322 15847 17847 17400 14936 73847 81064 71759
45475 05151 69539 44550 27268 68060 52965 55990 12308 21685
22698 50307 03643 57044 23303 15834 45021 20644 68268 80195
08427 04720 61424 66525 29311 83139 74771 61685 74618 69698
04432 93031 33271 23930 77429 70481 41973 37891 90995 48506
36215 09258 17656 21027 49432 74932 86875 71020 28168 81374
80247 33895 25494 15704 69612 39485 89437 86704 06122 86235
24987 18718 14214 29591 40287 89715 41067 78809 44587 41950
15718 16573 11141 21437 90613 89649 82372 60517 79512 89415
25075 21375 86884 89488 70156 57029 63408 54251 12365 27055
62945 22846 05906 60489 24058 43111 80689 70344 85943 37222
96146 25492 44386 80277 64034 00265 25594 81253 04798 08034
90568 78054 24075 90568 16769 09983 01461 68118 48833 40530
30430 56615 58200 23803 87418 57681 47398 14010 19526 24323
74605 86171 29442 96900 80487 71359 45182 12921 15379 20246
66245 23198 28021 65183 67993 56447 07113 17491 59793 01117
61880 53265 68178 04460 25518 15032 89314 68756 17597 62354
46223 66315 24444 98858 93983 53332 73734 23563 73839 51077
37840 97162 67077 01186 27289 49138 15381 48453 85886 30964
79144 38210 66430 34595 72689 38766 30326 99334 80114 95630
13332 65569 92590 18582 07487 30198 36544 81739 11062 13417
10181 86199 61394 41042 77243 28867 13418 53606 90041 53729
06341 07328 96406 13361 71839 70285 91313 19992 34327 38372
44190 46031 27329 98923 21939 47958 40131 58495 05786 94011
47436 60003 51926 51288 37368 48243 38644 14922 34828 16481
93014 60301 13151 53618 85357 76028 26884 71855 14860 71545
58627 25648 03868 89101 22431 97800 29476 11195 53628 95101
53716 23363 30352 48711 07739 68873 64562 07497 11320 08620
06681 50353 11573 69373 22917 98014 82840 06159 49704 95010
47699 91363 50262 25920 65048 65385 15111 98548 45632 13695
94088 11459 99346 87342 48552 14984 21221 61032 46995 23259
22826 86807 87997 04177 36077 17578 47676 52453 04526 37211
15456 32812 02898 94119 41238 27673 53823 64266 26087 72521
37293 65254 36810 86415 28422 49920 85766 81000 09798 22084
54873 60154 93859 50477 26991 37128 18236 15263 84770 58148
07828 13411 91318 03622

18391/17431/16146 kHz, 15-12/17-12, 0910/0930/0950 UTC

00584 00376 89709 32418 38699 98013 46011 55388 86167 16779
06348 89486 36351 36564 78473 17936 89557 45863 89749 45675
20198 14423 79695 53325 52103 83588 27593 02081 29618 46529
07783 22338 32532 31093 06286 28662 87083 33699 53931 44245
91102 67755 96243 00918 93396 68873 04173 28820 65075 85001
88610 91499 83447 57260 49032 01379 25469 65823 34308 79660
30624 62678 40485 15964 71270 41309 17694 47665 48968 36460
32683 49522 93071 48257 83513 55995 67082 92160 59787 58976
19170 41583 84324 63094 08650 67751 64169 81107 02347 83737
03882 25823 00967 14757 24303 32621 98849 86566 93647 80679
38709 31998 93923 95790 95114 65811 25581 17081 39104 46820
75002 07799 34941 87235 44806 86320 84405 75727 82452 15468
47052 80689 20561 37326 76897 34743 50592 99413 82221 78604
70731 75025 25309 27104 86660 50186 59901 96176 37477 05655

45564 77514 99262 39214 84242 94794 88265 33662 70680 85607
52119 27622 02093 66691 88044 50113 12284 44114 17193 63318
41551 47037 27005 78186 00638 95000 27856 73234 08354 93167
46198 31670 38248 66987 26654 98553 36311 65550 09944 24897
16552 57504 34870 54121 15111 68950 93373 91599 33969 54021
47080 98611 98329 95361 76526 17253 33392 15405 21284 01315
72250 52233 12948 62207 87707 68721 03484 93834 69222 71282
06648 05832 78356 49779 28686 91484 58704 72348 09938 36621
05543 42965 79327 99430 58229 66293 28756 12019 75312 66239
10407 13096 72918 98391 51843 64876 45254 85972 51276 22727
44495 03115 68995 05197 90630 57650 44290 96328 19009 21883
45423 09735 92500 49348 91629 49996 08081 26595 72133 41297
54765 84393 77725 94655 79131 90081 40956 71912 56038 30251
22485 35630 42010 76133 08610 09775 35499 96373 20485 53618
67606 68746 92227 98438 29132 52449 64353 48430 52554 66156
69927 72047 99730 95846 24127 81561 99153 72011 85343 61512
82868 29462 12663 87032 56970 79648 06224 33654 73640 96395
26714 17311 54014 97183 44619 65720 55044 54563 37773 02459
73162 82176 52560 30091 00466 41388 38369 18997 30332 21287
18437 69488 04537 20000 91739 20980 95963 60201 18789 08990
62571 65475 68547 27160 32813 88415 46095 45670 83133 88407
73993 48553 44881 92277 39641 27455 28443 84430 45466 56820
24121 01916 46715 00036 05064 56576 58426 41171 71611 40570
53087 06645 50843 17962 26492 18888 55574 60472 66347

18391/17431/16146 kHz, 22-12, 0910/0930/0950 UTC

03448 00001 00000 37257

18391/17431/16146 kHz, 24-12, 0910/0930/0950 UTC

07888 00001 00000 41267

18391/17431/16146 kHz, 29-12/31-12, 0910/0930/0950 UTC

07325 00384 19994 85187 29284 44489 22800 85379 38623 90111
75288 13418 95064 91385 27931 17367 28741 14024 54022 88290
77766 69612 82747 85128 34549 23569 65973 88553 01414 06975
40465 70271 09062 76162 05917 80357 92993 39113 80941 41767
62500 81227 11644 75750 71578 08791 64215 15115 28045 14518
03893 73966 07826 24362 76241 29366 01374 95984 89660 33197
40984 35668 08257 83771 73620 26399 21624 01525 75716 06630
91812 21495 15069 51415 19119 02592 75172 20621 98667 67235
41417 86705 79575 43137 54581 62243 52724 67927 37540 66269
46210 88165 32986 88940 94279 71701 13425 49441 06091 95400
57726 61009 96429 56608 84351 99639 34305 51282 63034 52028
93486 15656 72333 10206 72440 28243 87410 84632 50245 01192
48116 57057 90405 08414 64769 32235 97325 91087 71453 90919
34877 52334 33661 68767 05101 74078 75022 96688 94136 12871
82766 54365 10765 23992 72238 27481 35321 41557 93204 11420
45582 96849 08462 71915 39766 26113 41058 48749 75591 41710
12947 51787 03865 50472 33361 15226 41172 92227 16783 73351
29036 62220 04474 17880 71699 99720 54645 93212 46176 01380
23712 35268 88153 17566 65643 83628 31960 81210 72105 78438
31255 72951 44502 23374 55513 12406 21912 45535 55744 71754
34108 78464 96058 37121 82530 33968 49954 60338 51455 09975
56561 88090 85690 96638 87045 60015 99511 57760 31909 46401
17264 13388 98930 11427 18965 05793 08568 41321 75224 96106
94214 55566 59738 53033 43513 13271 79991 49845 37523 87179
76706 18934 55313 50220 74217 39740 63467 02937 94297 17319
69399 40668 44919 34536 60413 21796 74162 25867 36802 28759
95907 31596 29404 97279 10138 26995 21786 67113 73822 19292
78964 59218 96078 81377 84906 65976 26707 45015 13923 70893
35087 13309 94442 75426 15581 88432 39960 47385 49886 72854
52156 39713 14087 03544 74320 46201 55715 77101 01926 32958
29976 34459 20130 11591 72475 74284 95638 41020 96636 64428

27170 46805 15846 21090 70994 76555 03104 31462 28337 80687
52789 37358 69166 57382 64396 73985 98635 91296 66181 05308
41307 43109 55661 37749 72517 33710 54393 05052 94724 43035
36154 89386 83617 24407 67786 78310 17696 17306 05360 79163
67617 76945 16718 75536 15611 93934 68114 93122 75413 70554
77331 12200 41658 25775 44439 09928 32926 40034 95927 82120
34783 69101 69989 22765 64974 30439 73205 04213 00151 38141
84573 90177 13370 79030 75679 35836 23533

11579/10979/10279 kHz, 1100/1120/1140 UTC

11579/10979/10279 kHz, 03-12/04-12, 1100/1120/1140 UTC

07960 00247 53408 28652 04457 10831 40704 71319 82183 89694
67581 13690 50275 16499 52181 27485 82748 98779 20584 93287
96130 66167 31129 18934 31360 87167 49674 91737 08258 78151
11085 33280 69050 47606 72038 42804 96227 09557 24281 43363
46289 00921 46123 27428 14443 61225 36810 03655 84704 42367
69162 51573 72544 20960 84099 61039 04967 25240 62755 39789
76411 97850 64647 34148 12812 17149 01154 56752 21033 32313
25719 15812 58957 63495 63523 50475 70444 52888 78109 85553
59279 24926 34245 76588 48193 81649 54800 17536 22697 92813
71974 91450 97647 58901 50995 62161 94930 75176 62940 17282
77526 39912 42274 52058 25889 79123 78834 51493 98703 86702
70634 82190 57292 66830 61432 81456 64414 29466 83995 60937
69188 22120 98552 66845 90430 63431 29883 85614 41392 64240
28510 16756 69188 88521 66691 02932 64323 67647 63281 16750
01851 88134 32849 46564 10247 06409 07375 60148 29809 14764
05460 19422 19533 62390 42170 14670 15814 51539 43102 71386
80618 65375 57321 37604 22633 43966 18818 64309 50137 84926
46215 41348 18544 85406 13472 05618 00826 93092 70290 94480
62168 36115 96116 81200 13273 21643 97129 02592 58121 73428
10031 90957 64324 62091 44325 56932 22291 50315 60677 81790
39273 51004 56407 69297 83149 90431 98180 30736 36343 50143
32739 51869 54975 82904 21578 20875 45860 85396 36625 93601
72093 44708 24439 01520 33902 61956 21562 65057 28582 83110
25804 74609 64164 18105 65867 48492 58598 27727 47686 80952
37763 75613 41856 58627 00681 73950 37226 69708 88170 21467'

11579/10979/10279 kHz, 10-12/11-12, 1100/1120/1140 UTC

07629 00400 21824 43795 63300 07054 13264 41359 53884 00587
72376 27623 00511 53061 50347 67042 09757 04958 96331 75202
91415 21640 12654 38772 45079 65532 40136 60774 39203 08161
69997 96996 61123 75885 18948 36110 33329 73718 51434 67836
94098 52768 60170 67551 77738 71705 13673 44805 27698 74668
15349 28871 00686 52216 14409 65176 25145 41171 43372 89235
50921 03510 23936 23643 03470 93274 97449 06236 00394 91131
19700 30417 23883 40054 04890 43913 77947 77589 24112 93380
61711 83842 47670 75685 95002 95533 50983 11796 31036 87040
91153 22375 14393 87212 93050 98458 58741 84282 41078 85219
70742 17588 58522 02916 40509 03963 97648 38813 87005 41848
31700 45622 67188 42571 85871 93095 15894 33447 85793 78390
96337 67973 97085 59733 12980 49092 56924 51761 62597 00426
91858 48223 62564 24644 83983 76943 79794 50428 15289 84461
70241 36813 23623 86506 59264 80036 45453 88965 19916 64862
48542 18190 50087 26068 51897 51886 01605 04646 97130 88690
06667 09326 12344 18652 15010 97229 76450 13438 74874 23807
18623 88982 11106 55217 76922 94273 88308 98816 36155 18244
21328 50342 72238 19755 62671 59973 22737 43323 40944 99090
55389 98286 02784 55551 13008 65817 00941 06760 27248 13821
03713 68190 78781 26194 93855 80831 02638 12877 10951 67223
09388 73593 47948 04548 22680 12514 49029 18148 25721 41865
16172 27711 98682 43912 68271 27468 67565 19354 52578 60521
31411 77106 69081 39210 36951 37581 31427 89467 06314 92665

64417 07358 14983 39992 93922 69260 18880 27599 32943 81958
02669 26030 05875 03482 35478 39759 95773 41833 01093 75830
59508 67074 98081 83661 91317 53725 95071 50211 37168 75716
49034 90232 64581 95093 71068 38479 47495 40039 25578 80325
53103 74665 05440 93894 20241 25026 49310 20843 74646 41628
95839 45215 42572 24179 15058 45984 98361 48452 87327 35970
23886 46299 36059 77292 16783 66481 00482 70356 65298 86324
04341 07834 50799 65029 42495 16339 47894 51664 24315 22766
22636 42399 11147 58500 93304 22465 90703 03540 00047 07507
55865 56032 30781 89700 65611 52413 22335 60574 76934 30156
06628 72838 73324 63747 70667 11256 86121 09047 59639 37930
50168 02221 62727 97173 87225 77277 30743 17249 00337 91762
68698 46301 39968 81640 07456 38603 79965 65548 82159 58869
85930 06770 34147 59077 82475 16936 11030 88526 99874 14858
86618 91590 35492 92551 12396 15278 29867 63450 37265 41610
35592 46128 15937 32336 28319 19861 15796 60530 90225 33453
18422 43643 62647

11579/10979/10279 kHz, 17-12, 1100/1120/1140 UTC

07696 00001 00000 37270

11579/10979/10279 kHz, 19-12, 1100/1120/1140 UTC

01081 00001 00000 31661

11579/10979/10279 kHz, 24-12/25-12, 1100/1120/1140 UTC

00946 00316 29756 68383 24157 22663 07461 87327 42822 42306
50237 81134 41381 69084 09700 29942 43993 02856 04847 39438
98695 34447 58798 83292 85333 46601 72039 13046 54803 04100
13665 67687 32778 20601 31500 42170 90421 93986 36490 60285
64631 25464 05772 95065 89805 06807 32797 43087 00603 55307
90999 93294 13953 84158 82732 20496 10664 23048 35077 59465
00612 37315 98586 92671 64296 44629 00862 82656 25368 59652
24789 54874 04691 28386 66468 46150 72039 00487 69424 94320
98461 09559 50495 68306 87793 96309 40468 20424 61473 46950
99580 57151 24643 20648 21144 70285 15270 02220 54343 68057
35689 10490 50001 37539 35397 09150 85215 45229 46364 35214
13866 43244 36503 53513 43053 15219 63896 11657 00616 02535
55838 70549 03985 04000 74556 59828 48388 37302 19776 90798
76495 80723 53107 33661 23925 66647 90753 53026 53589 07328
86749 13258 37239 53836 07964 96575 10651 49300 27165 30973
32819 43591 71561 48770 91591 52364 45355 98287 05001 77277
54900 14378 78226 59710 15434 77003 03448 49430 95192 90784
93245 01873 12572 21836 14099 98544 47368 58692 57758 12670
46445 21242 66051 83843 90291 52200 10016 09439 15689 41299
38966 96210 38972 35747 18583 10460 55152 58588 18082 25878
20533 04617 57272 43754 86460 80177 17165 23687 52563 92190
30713 00053 80270 62151 68580 55923 61233 15617 61222 63277
61937 62227 64109 83258 41090 10914 39425 82388 04032 40241
53646 98109 39977 07318 35944 11451 06707 90770 31072 94807
54559 30460 28647 16229 10852 97232 28884 76094 11728 88009
39373 49679 15273 07917 95005 10401 19210 23133 77385 50658
26141 79701 49227 74111 97114 05824 53660 97699 87715 12756
36381 45852 10099 54783 69380 57819 68188 53268 38643 96206
00848 39489 73571 72674 01821 40923 21613 85593 86139 77834
90154 79154 39957 90970 31227 48647 27474 63388 02033 02572
86877 12274 37133 67480 22360 12913 57678 90143 84343 46242
68847 79937 01460 13877 00845 16268 79291 16749 02267

11579/10979/10279 kHz, 31-12, 1100/1120/1140 UTC

05797 00001 00000 40266

14841/16241/18241 kHz, 03-12/05-12, 1200/1220/1240 UTC

00168 00178 61214 69137 94388 37348 24425 51806 38348 45700
83214 86343 58447 82829 85413 28197 82806 85981 88031 83748
74943 54040 98574 59386 71251 62016 01685 33554 90796 67646
68548 57619 77952 42048 51537 15499 60997 74083 49492 98003
39385 30285 74906 04008 41613 94240 66914 79711 22523 45362
05995 28782 55572 57294 11570 86566 87057 97105 20027 13051
83021 84620 84718 93069 52652 78837 87371 28629 43986 17418
61602 35448 58272 73917 00677 10127 63206 77199 77649 24412
17800 92329 53285 79220 99092 43953 66503 49320 13312 93637
67211 39768 01827 62584 94890 83393 49156 39909 88378 32733
30063 75839 44872 16629 94757 18869 17000 77360 26318 63422
78105 95915 78827 28141 95269 41374 28565 13607 37972 34472
22694 58146 64959 92402 36496 49725 74850 83853 32058 38292
75496 57415 98622 93898 07142 40445 11564 16784 79885 02865
90302 24556 61190 26743 65203 28890 63502 32216 35465 28141
38268 64960 34148 34488 97563 32352 59764 48348 44054 85393
97171 81017 49940 96003 44475 90924 93904 09197 28814 17764
38710 84781 71839 73322 40365 26448 82744 14779 61291 96045
63722

14841/16241/18241 kHz, 10-12/12-12, 1200/1220/1240 UTC

00239 00120 24165 60878 63049 92534 79999 68723 69765 42282
62447 77829 71313 83566 30354 88359 23613 98988 55454 74275
69789 18635 61831 29077 70677 61202 08062 83477 74245 01323
66052 59544 05900 28196 80781 60715 72093 58712 51380 53039
31660 04009 52594 81010 41305 32175 75703 05556 94088 87696
77015 20767 32952 55447 66884 94513 22401 74824 66155 64819
88199 99245 36303 74302 84472 96504 24003 38537 66920 72993
06019 59691 99538 47205 91838 17416 81342 26129 05583 88425
67066 36489 37829 75684 78354 89459 19270 08486 06439 48461
31925 40627 58493 69896 49294 43582 88744 36495 20915 28867
94188 14607 09464 29036 16977 29154 78589 76719 63948 81908
82372 80156 18791 26617 56073 27300 28299 26906 97362 84721
34838 04276 64001

14841/16241/18241 kHz, 17-12/19-12, 1200/1220/1240 UTC

07509 00087 75135 84786 71306 38094 08535 02208 92662 99040
31149 67657 28962 56378 11251 40288 26590 25870 09799 02497
16454 25852 85341 08689 77553 71530 00305 19912 58103 04789
21853 13798 83835 04382 43449 41679 07036 23699 89395 27826
06084 05266 89995 43962 23533 32820 44916 42988 69231 51869
81777 11683 97477 20022 17886 91678 24894 75740 56504 23021
99938 58724 21026 90516 17172 87082 00421 83258 24162 06533
64557 78115 18225 73299 61584 64707 50759 04087 57526 43258
29951 47821 61790 03084 85780 76117 58585 45431 93857 65705

14841/16241/18241 kHz, 24-12, 1200/1220/1240 UTC

00882 00065 06625 48573 66666 62246 83033 31708 58703 08563
60360 01688 23303 02883 68803 66610 06233 56220 70330 68478
30638 30235 03830 06372 88613 27462 11720 83033 88345 02333
77607 03824 53130 63682 23685 63046 43386 30486 06083 30570
83384 20645 20863 88002 23349 66078 68716 60178 30830 88220
08455 12708 64800 03806 01065 82507 70820 18513 07803 87302
30863 83110 84038 60418 88088 06636 56810 70053

14841/16241/18241 kHz, 31-12, 1200/1220/1240 UTC

03059 00001 00000 35661

10197/9342/8097 kHz, 02-12/04-12, 1700/1720/1740 UTC

09977 00196 71668 16021 83541 55355 09819 56270 02503 74455
98986 93642 10567 23774 58495 20736 90772 34188 77910 61818
05572 12234 20569 09089 44122 24090 58398 53443 56760 04283
49332 39343 01370 23079 86737 67843 36598 69903 76911 88700
61894 72079 03952 19922 91252 41338 47774 11005 23055 12274
78181 04714 54011 18859 09974 63526 98453 17759 17190 59547
89446 74264 01687 58029 34797 20549 28557 88777 24612 08217
98902 35829 47394 18325 85228 88022 97660 62924 91619 20327
73940 03710 01302 35408 67189 33940 56656 13933 17961 26808
63316 78178 13732 16733 39432 44076 36648 53917 91779 47518
52737 30301 35747 87070 48015 55213 13881 77231 63459 44821
80463 90352 57481 15074 59300 31256 36397 09912 66152 97338
68404 44551 90349 58441 06862 42390 00027 68204 70893 76162
70537 92077 31257 32845 12340 17485 53526 06134 63735 07090
43922 73857 82664 77755 03333 83439 80867 46162 78725 85599
72711 84380 83073 39269 63900 82691 12139 98072 44311 76365
86232 89254 06597 47207 83439 41447 52416 71171 23833 38556
18695 82059 69442 88373 84397 31961 33967 98731 42443 05311
70250 50311 20700 72668 56830 03213 87369 80638 70947 42372
57675 61479 25377 79392 73414 74277 82129 16325 13706

10197/9342/8097 kHz, 09-12, 1700/1720/1740 UTC

08208 00001 00000 352000

10197/9342/8097 kHz, 11-12, 1700/1720/1740 UTC

04352 00001 00000 33661

10197/9342/8097 kHz, 16-12/18-12, 1700/1720/1740 UTC

00897 00237 06605 02510 74668 51442 15658 80643 04885 49504
64438 29835 66380 33297 74934 66456 85563 00070 26032 98106
45213 78757 51915 08161 86637 21684 85257 44817 15017 33540
09738 41779 99477 26038 83103 33644 30275 38904 75541 47220
15241 78046 09290 60884 71243 45922 37585 18062 13254 27671
30679 91440 51152 80990 48976 51854 10490 98934 56951 63805
33029 22990 26924 80382 51515 01388 03770 60814 80340 97251
87731 83856 22792 50921 48038 44636 72448 61083 31063 65707
27525 09588 15356 48199 06437 41871 70029 14241 74307 08518
83818 84089 74478 55908 97003 07314 49100 94473 51592 89718
06320 91001 26427 81489 46275 23999 54443 04048 32980 08797
39324 72550 50433 44399 53466 89751 65357 03200 25383 66624
75678 70184 40727 87679 34893 14768 40189 62240 64340 40385
41317 19860 86929 76258 45520 91233 36339 99949 71813 33463
93413 87746 55325 50408 68677 32692 44667 60465 09167 03110
32977 47164 67599 62435 30453 86637 28062 28303 70380 69082
92666 56872 31214 29065 80802 96619 00252 92820 97279 40494
48181 73644 89709 25804 39597 41906 23625 67355 17970 13311
64336 16123 76939 46878 17548 64129 18085 86571 66866 99349
73011 23396 86358 96798 94544 46146 36483 68331 74403 67892
13114 64527 66789 35442 52635 06588 18997 03718 82581 13892
46772 72778 21589 19857 51100 90968 77012 93193 48251 14444
48212 27504 78982 42381 68313 44411 70705 08038 55983 62270
52606 79595 18809 67462 31102 99292 66395 93496 10074 23753

10197/9342/8097 kHz, 23-12, 1700/1720/1740 UTC

02622 00001 00000 35254

10197/9342/8097 kHz, 25-12, 1700/1720/1740 UTC

06409 00001 00000 37656

10197/9342/8097 kHz, 30-12, 1700/1720/1740 UTC
09723 00001 00000 36263

16279/15914/14678 kHz, 0900/0920/0940 UTC

16279/15914/14678 kHz, 06-12, 0900/0920/0940 UTC
05281 00001 00000 32665

16279/15914/14678 kHz, 11-12, 0900/0920/0940 UTC
02218 00001 00000 36253

16279/15914/14678 kHz, 13-12, 0900/0920/0940 UTC
09325 00001 00000 35263

16279/15914/14678 kHz, 18-12/20-12, 0900/0920/0940 UTC
00299 00690 01664 22248 67344 17782 20004 87317 52139 75248
19002 97007 04850 94491 42558 51218 92472 66664 94470 24460
81723 10170 45937 81391 70498 74185 37695 46415 40098 23420
12379 52866 16373 23428 18418 63914 60395 51666 24736 15524
97629 62704 48845 40588 83849 11662 84107 66913 91679 21435
17210 94326 46535 14992 40308 73039 79842 55336 14122 77412
87653 31298 40887 07978 40231 05642 54465 00848 86295 36609
71116 73105 16660 80799 88840 59677 33957 79170 69624 18745
70773 42485 17874 34841 85720 02556 56937 85510 69129 80223
44509 93207 06071 90708 49033 78799 74664 08311 47707 55756
16884 93946 26481 30830 89367 78332 74623 12836 70530 38602
51026 93560 73200 86780 01726 46624 16938 07924 36847 27804
57151 71080 04461 06157 33657 43380 43178 50944 58635 28237
72534 18925 96636 32116 57071 47085 95155 66719 84452 78262
90058 04126 07242 17986 42349 05776 58758 07110 80653 55017
46231 17569 98321 82601 40684 23330 82864 98909 24870 41276
50675 91764 36368 49586 48969 90907 14302 30031 03187 83380
03211 57926 88537 71187 49234 66652 54962 14377 51308 08767
81619 52640 30648 73625 99317 85745 86505 83297 89599 81876
25947 23666 82470 95727 10958 33179 71476 68335 46439 34579
86558 86950 53427 39405 07448 40077 18372 64044 64650 47538
22936 49243 00418 20205 10985 06951 06321 07379 47368 03962
84611 68260 52816 40530 02110 95404 51810 38400 45053 93244
96198 83100 65620 29759 30312 72567 07279 55029 01482 75539
85994 02879 05368 09716 77355 91161 14776 91925 93226 87244
49676 27801 52899 49970 02387 68277 61129 82304 75074 35654
83665 79912 53890 57533 56359 52156 11578 24077 69848 28702
98056 29654 32316 55102 47720 52385 63674 88724 78898 43926
98307 61320 53527 94721 33453 40987 87619 46600 66960 75146
99833 86999 61946 55934 38364 36147 01118 02018 81484 04450
31440 19915 83447 48723 52856 83727 77315 59650 96877 36412
42664 34205 97399 61352 39680 66861 89788 77192 93875 45730
64761 62486 16605 49489 66820 97314 47682 09484 29162 78340
52228 69922 90427 84618 39829 60947 85358 70922 83470 16386
95949 47232 03382 92898 38278 51038 13572 24440 39098 65596
11944 78954 81290 87125 87919 17969 82624 23144 82743 48530
72609 78079 27680 89483 41923 29981 84285 65530 39148 29146
40720 52103 64434 89662 54199 51761 22999 86255 76812 52043
38334 42571 44656 27185 66011 11062 24219 22429 80796 19696
09171 20066 16236 35458 84938 00551 27219 01503 34684 51912
04387 70845 16503 13324 76354 81832 92566 43992 98170 88636
82606 68529 77820 50277 82412 23674 25971 97919 73953 44209
52304 02293 95794 12584 70290 94348 47905 44002 41740 51666
59197 98537 19084 74840 03093 72499 47657 42099 30189 98842
21793 96649 20912 32629 16380 20284 73402 74952 04758 78107
06517 97333 11053 20041 04176 00967 15216 32726 10230 50156
98366 69355 53389 57373 66139 80713 80466 59718 45353 77144
22529 40761 52683 09342 24139 24808 61104 79360 98596 99013

37894 56341 27701 55813 84946 37192 97216 63200 01390 02010
86183 82714 26960 46948 31305 62785 07261 41586 47056 05706
20443 81489 77777 68061 38306 48953 80889 67709 20682 29058
51156 50189 22843 21979 99265 24597 21428 53511 40057 05615
13183 22555 92066 35049 98254 80119 85673 65132 97729 76754
39958 35665 49898 50566 65116 38634 59259 68968 62006 78396
36431 46888 47624 13804 59416 91327 93159 07983 54405 95213
97504 28964 34958 76763 60217 59058 36769 36188 87301 82595
70552 90766 92455 63642 95817 32845 21095 52937 83775 07336
89701 48634 60301 18616 84399 70501 73712 04630 03137 43362
19405 94029 37368 97971 10668 02455 13518 39364 54476 98907
09990 51710 40917 40238 98782 96854 69989 92171 89668 25057
59814 09834 00048 92223 84780 59050 16788 34958 59732 37578
41210 21647 56242 36529 97556 93930 50124 20712 34440 72562
41178 34699 78878 09383 96289 22747 60295 51933 72929 77254
95204 95630 68514 59784 02482 12871 45695 88437 34636 83248
84750 77279 42239 67191 52747 98103 47136 47594 20082 91656
15284 87453 48198 40043 69845 76661 32682 18583 29058 48979
94671 46957 58650 91480 06855 17904 82433 28476 64290 96864
62462 06046 83493 13205 54230 57610 49738 74864 58648 78721
34696 03772 98232 80356 38683 17389 14074 81848 89495 83102
47686 44566 34321

16279/15914/14678 kHz, 25-12/27-12, 0900/0920/0940 UTC

08872 00326 30401 46382 90538 70492 38301 85756 41917 32855
29295 87511 02399 83794 30688 77505 01168 11801 05065 90727
50088 54794 09442 63572 27867 57250 72340 15251 29038 26933
22233 84616 99058 11840 67076 88947 13008 53533 32847 97033
92317 58723 58638 44304 57065 78703 33859 55966 59509 72143
02847 23694 15910 52324 25090 66232 32741 27412 54788 92062
92884 96334 71743 13933 18115 94886 70065 22469 29081 00323
60551 90492 03649 50372 02751 13405 00242 09006 21775 45080
81036 25206 22124 70346 47613 99800 48833 42029 22354 96760
16227 79843 50005 83604 56417 05247 72817 43913 13140 36198
71271 41313 87272 89012 73144 86539 76608 91394 65791 21170
56464 29561 12706 37096 51781 39783 51631 19032 01374 73814
40641 28683 59864 71603 00245 97738 43448 70428 00822 94015
13248 18510 70102 22532 56906 97260 72369 06268 30611 18917
84174 02257 70626 78656 93105 53311 25426 33163 93752 45569
82005 77754 06262 14343 72084 65952 60333 41922 29884 97524
81024 58764 10000 91120 96660 20118 54283 94405 68168 41762
88270 07881 64224 63842 67962 75801 09553 84159 98675 60705
08586 67283 10466 39593 86734 58401 96038 54628 82236 69644
16948 01300 16520 49442 50770 08292 17409 47895 34152 42967
54321 86577 66004 46404 60549 78917 80163 97268 54296 49908
13797 56213 85903 66098 14168 83732 47380 08461 18570 29213
65323 20580 77016 01193 18546 80591 22957 83512 19733 69420
28026 57142 75299 22655 16526 16575 47530 75476 12346 64968
57057 84490 73256 78997 11901 68407 53358 08275 44611 77049
81794 10309 25752 55754 70028 32607 15853 68415 83663 81990
93978 26647 52459 24067 81438 80767 86616 84204 92096 78680
41495 41869 26743 41700 82560 00768 65511 27987 26869 28826
33926 23907 49972 97894 98977 57857 75173 64249 59354 93350
03451 43844 11120 79482 83186 88014 62171 85865 12466 89197
89259 49898 70071 13363 50193 48801 31181 52142 53023 57225
26693 77700 08223 56417 44334 83154 40355 40944 60663 06337
23343 88652 24323 98583 37737 78703 94692 62361 52237

XPB1

19461 kHz, 01-12/02-12/08-12/09-12/15-12/16-12/22-12/23-12/29-12/30-12, 0600 UTC
19261 kHz, 01-12/02-12/08-12/09-12/15-12/16-12/22-12/23-12/29-12/30-12, 0610 UTC
18261 kHz, 01-12/02-12/08-12/09-12/15-12/16-12/22-12/23-12/29-12/30-12, 0620 UTC
16261 kHz, 01-12/02-12/08-12/09-12/15-12/16-12/22-12/23-12/29-12/30-12, 0630 UTC
15861 kHz, 01-12/02-12/08-12/09-12/15-12/16-12/22-12/23-12/29-12/30-12, 0640 UTC
14961 kHz, 01-12/02-12/08-12/09-12/15-12/16-12/22-12/23-12/29-12/30-12, 0650 UTC

20044 kHz, 02-12/05-12/09-12/12-12/19-12/23-12/26-12/30-12, 1300 UTC
19344 kHz, 02-12/05-12/09-12/12-12/19-12/23-12/26-12/30-12, 1310 UTC
18544 kHz, 02-12/05-12/09-12/12-12/19-12/23-12/26-12/30-12, 1320 UTC
17444 kHz, 02-12/05-12/09-12/12-12/19-12/23-12/26-12/30-12, 1330 UTC
16244 kHz, 02-12/05-12/09-12/12-12/19-12/23-12/26-12/30-12, 1340 UTC
14944 kHz, 02-12/05-12/09-12/12-12/19-12/23-12/26-12/30-12, 1350 UTC

X--

18237 kHz, 08-12, 1210 UTC	13392 kHz, 09-12, 1505 UTC	16314 kHz, 16-12, 0850 UTC
17443 kHz, 08-12, 1214 UTC	19457 kHz, 11-12, 1300 UTC	20368 kHz, 24-12, 1432 UTC
15937 kHz, 08-12, 1217 UTC	18648 kHz, 11-12, 1300 UTC	19855 kHz, 24-12, 1435 UTC
14383 kHz, 08-12, 1221 UTC	17423 kHz, 11-12, 1308 UTC	18564 kHz, 24-12, 1441 UTC
13397 kHz, 08-12, 1225 UTC	16172 kHz, 11-12, 1312 UTC	16256 kHz, 24-12, 1445 UTC
19346 kHz, 09-12, 1313 UTC	15619 kHz, 11-12, 1316 UTC	15624 kHz, 24-12, 1450 UTC
18544 kHz, 09-12, 1320 UTC	19157 kHz, 11-12, 1332 UTC	16274 kHz, 26-12, 0743 UTC
20997 kHz, 09-12, 1450 UTC	17518 kHz, 11-12, 1338 UTC	18569 kHz, 26-12, 0943 UTC
18923 kHz, 09-12, 1453 UTC	15834 kHz, 11-12, 1343 UTC	16274 kHz, 26-12, 0947 UTC
17425 kHz, 09-12, 1457 UTC	18922 kHz, 16-12, 0841 UTC	
15623 kHz, 09-12, 1501 UTC	17433 kHz, 16-12, 0850 UTC	

X06 variants

16244 kHz, 19-12, 0759 UTC, MFSK-6	666534 (off 0802z)
16244 kHz, 19-12, 0809 UTC, MFSK-6	666534 (off after 25sec)
16241 kHz, 19-12, 0815 UTC, MFSK-6	666111 (off 0817z)
16244 kHz, 19-12, 0821 UTC, MFSK-6	616161 (off 0822z)
16241 kHz, 19-12, 0831 UTC, MFSK-6	616161 (off 0832z)
16250 kHz, 22-12, 0736 UTC, MFSK-6	666644 (off 0907z)
9326 kHz, 31-12, 0736 UTC, MFSK-6 AM	111666 (off 0759z)
9320 kHz, 31-12, 0905 UTC, MFSK-6 AM	111666 (off 0908z)
9320 kHz, 31-12, 1208 UTC, MFSK-6 AM	111666 (off 1216z)
8320 kHz, 31-12, 1417 UTC, MFSK-6 AM	111666 (off 1443z)
12320 kHz, 31-12, 1146 UTC, CW	111111 (off 1208z)
12320 kHz, 31-12, 1236 UTC, MFSK-6 AM	111666 (off 1246z)
12320 kHz, 31-12, 1313 UTC, CW	111111 (off 1331z)
12320 kHz, 31-12, 1332 UTC, MFSK-6 AM	666111 (off 1334z)

DIPLOMATIC STATIONS

Diplomatic stations: Bulgaria

14755 kHz, 09-12, 0822 UTC, RFSM-8000
18455 kHz, 09-12, 1358 UTC, RFSM-8000
14755 kHz, 10-12, 0822 UTC, RFSM-8000
12156 kHz, 10-12, 0910 UTC, RFSM-8000
18455 kHz, 10-12, 1358 UTC, RFSM-8000
17440 kHz, 10-12, 1322 UTC, RFSM-8000
14755 kHz, 11-12, 0920 UTC, RFSM-8000

FIM: Bulgarian embassy Helsinki wkg LZG7: MFA Sofia on 18035 kHz

17440 kHz, 11-12, 1321 UTC, RFSM-8000
 18455 kHz, 11-12, 1355 UTC, RFSM-8000
 14755 kHz, 12-12, 0922 UTC, RFSM-8000
 17440 kHz, 12-12, 1320 UTC, RFSM-8000
 18455 kHz, 12-12, 1358 UTC, RFSM-8000
 18055 kHz, 12-12, 1358 UTC, RFSM-8000
 14755 kHz, 15-12, 0921 UTC, RFSM-8000
 17440 kHz, 15-12, 1321 UTC, RFSM-8000
 18455 kHz, 15-12, 1356 UTC, RFSM-8000
 14755 kHz, 18-12, 0841 UTC, RFSM-8000
 17440 kHz, 18-12, 1322 UTC, RFSM-8000
 18455 kHz, 18-12, 1358 UTC, RFSM-8000
 9375 kHz, 19-12, 0822 UTC, RFSM-8000
 12156 kHz, 19-12, 0859 UTC, RFSM-8000
 14755 kHz, 19-12, 0922 UTC, RFSM-8000
 17440 kHz, 19-12, 1332 UTC, RFSM-8000
 18455 kHz, 19-12, 1357 UTC, RFSM-8000
 14755 kHz, 23-12, 0918 UTC, RFSM-8000
 12156 kHz, 23-12, 0857 UTC, RFSM-8000
 18455 kHz, 23-12, 0839 UTC, RFSM-8000
 17440 kHz, 23-12, 0818 UTC, RFSM-8000
 13974 kHz, 23-12, 0929 UTC, RFSM-8000

VJZ: Unis embassy wkg LZO: MFA Sofia on 14790 kHz

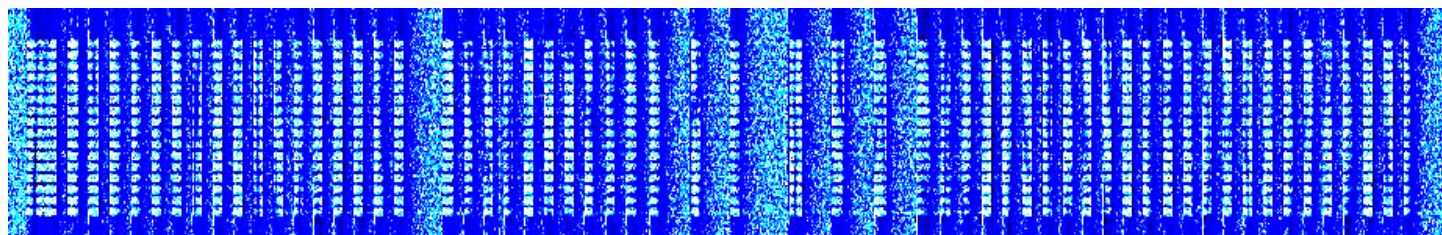
ORB wkg DOK on 18055 kHz
 DOK wkg ORB on 18455 kHz

BOK: Bulgarian embassy Cyprus

Diplomatic stations: Egypt

11171.7 kHz, 12-12, 1435 UTC, SITOR-A 100/170
 11406.7 kHz, 23-12, 1719 UTC, SITOR-A 100/170
 13441.7 kHz, 24-12, 1703 UTC, SITOR-A 100/170
 13801.7 kHz, 31-12, 1549 UTC, SITOR-A 100/170
 13800.0 kHz, 31-12, 1550 UTC, CODAN

MFA Cairo clg OOV: Egyptian embassy Islamabad
 MFA Cairo. Long message to RCVB: Egyptian embassy Washington
 MFA Cairo clg RCVB: Egyptian embassy Washington
 MFA Cairo clg QQTX: Egyptian embassy Prague
 99903: MFA Cairo wkg 22201: Egyptian embassy Prague



CODAN traffic

Diplomatic stations: North Korea

14150 kHz, 01-12, 0650 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 01-12, 0700 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 01-12, 0805 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 01-12, 1254 UTC, DPRK ARQ 600/600 LSB
 18650 kHz, 01-12, 1254 UTC, DPRK ARQ 600/600 LSB
 14150 kHz, 01-12, 1302 UTC, DPRK ARQ 600/600 LSB
 14800 kHz, 02-12, 0709 UTC, DPRK ARQ 600/600 LSB
 13200 kHz, 02-12, 0813 UTC, DPRK ARQ 600/600 LSB
 13200 kHz, 02-12, 0818 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 04-12, 0711 UTC, DPRK ARQ 600/600 LSB
 15550 kHz, 04-12, 0719 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 04-12, 0739 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 04-12, 1225 UTC, DPRK ARQ 600/600 LSB
 16252 kHz, 04-12, 1243 UTC, DPRK ARQ 1200/600 LSB
 16250 kHz, 04-12, 1307 UTC, DPRK ARQ 600/600 LSB
 12600 kHz, 05-12, 0810 UTC, DPRK ARQ 600/600 LSB
 13200 kHz, 05-12, 0818 UTC, DPRK ARQ 600/600 LSB
 16100 kHz, 06-12, 1301 UTC, DPRK ARQ 600/600 LSB
 13600 kHz, 08-12, 1229 UTC, DPRK ARQ 600/600 LSB

DPRK embassy Moscow wkg DPRK embassy Geneve
 DPRK embassy Moscow wkg DPRK embassy Geneve
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Geneve
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Moscow wkg DPRK embassy Warszaw. QSY freq 13400 kHz
 DPRK embassy Moscow wkg DPRK embassy Warszaw. QSY freq 13400 kHz
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 Unid DPRK embassy wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Warszaw
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK embassy Vienna

14150 kHz, 10-12, 0653 UTC, DPRK ARQ 600/600 LSB
14300 kHz, 11-12, 0734 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 11-12, 1300 UTC, DPRK ARQ 600/600 LSB
14250 kHz, 11-12, 1300 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 12-12, 0645 UTC, DPRK ARQ 600/600 LSB

14300 kHz, 12-12, 0725 UTC, DPRK ARQ 600/600 LSB

14150 kHz, 12-12, 1305 UTC, DPRK ARQ 600/600 LSB

14250 kHz, 12-12, 1305 UTC, DPRK ARQ 600/600 LSB
17140 kHz, 15-12, 0701 UTC, DPRK ARQ 600/600 LSB
14300 kHz, 15-12, 1039 UTC, DPRK ARQ 600/600 LSB
18650 kHz, 15-12, 1244 UTC, DPRK ARQ 600/600 LSB
14250 kHz, 15-12, 1302 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 15-12, 1302 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 15-12, 1345 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 16-12, 0645 UTC, DPRK ARQ 600/600 LSB
11090 kHz, 16-12, 0804 UTC, DPRK ARQ 600/600 LSB
16407 kHz, 16-12, 1200 UTC, DPRK ARQ 600/600 LSB
17140 kHz, 16-12, 1230 UTC, DPRK ARQ 600/600 LSB
14320 kHz, 16-12, 1232 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 16-12, 1300 UTC, DPRK ARQ 600/600 LSB
14100 kHz, 16-12, 1306 UTC, DPRK ARQ 600/600 LSB
11082 kHz, 16-12, 1500 UTC, DPRK ARQ 1200/600 LSB
14150 kHz, 17-12, 0646 UTC, DPRK ARQ 600/600 LSB
13400 kHz, 17-12, 0808 UTC, DPRK ARQ 600/600 LSB
14620 kHz, 17-12, 0824 UTC, DPRK ARQ 1200/600 LSB
14300 kHz, 19-12, 0701 UTC, DPRK ARQ 600/600 LSB
11090 kHz, 19-12, 0812 UTC, DPRK ARQ 600/600 LSB
14250 kHz, 19-12, 0815 UTC, DPRK ARQ 600/600 LSB
14300 kHz, 19-12, 0815 UTC, DPRK ARQ 600/600 LSB
14300 kHz, 19-12, 0825 UTC, DPRK ARQ 600/600 LSB
14300 kHz, 19-12, 1329 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 22-12, 0648 UTC, DPRK ARQ 600/600 LSB
13200 kHz, 22-12, 0818 UTC, DPRK ARQ 600/600 LSB
14250 kHz, 22-12, 0842 UTC, DPRK ARQ 600/600 LSB
14300 kHz, 22-12, 1215 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 23-12, 0642 UTC, DPRK ARQ 600/600 LSB
13250 kHz, 23-12, 0805 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 24-12, 0648 UTC, DPRK ARQ 600/600 LSB
11090 kHz, 24-12, 0804 UTC, DPRK ARQ 600/600 LSB
11090 kHz, 24-12, 1200 UTC, DPRK ARQ 600/600 LSB
13200 kHz, 24-12, 1209 UTC, DPRK ARQ 600/600 LSB
14300 kHz, 25-12, 1335 UTC, DPRK ARQ 600/600 LSB
14200 kHz, 25-12, 1335 UTC, DPRK ARQ 600/600 LSB
16252 kHz, 26-12, 1305 UTC, DPRK ARQ 600/600 LSB
14100 kHz, 26-12, 1307 UTC, DPRK ARQ 600/600 LSB
13100 kHz, 26-12, 1313 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 26-12, 1412 UTC, DPRK ARQ 600/600 LSB
14100 kHz, 26-12, 1412 UTC, DPRK ARQ 600/600 LSB
11090 kHz, 26-12, 1416 UTC, DPRK ARQ 600/600 LSB
14300 kHz, 26-12, 1433 UTC, DPRK ARQ 600/600 LSB
14150 kHz, 29-12, 0646 UTC, DPRK ARQ 1200/600 LSB

13850 kHz, 29-12, 0751 UTC, DPRK ARQ 1200/600 LSB
11090 kHz, 29-12, 0806 UTC, DPRK ARQ 1200/600 LSB
14150 kHz, 29-12, 1418 UTC, DPRK ARQ 1200/600 LSB
12850 kHz, 29-12, 1438 UTC, DPRK ARQ 1200/600 LSB
14300 kHz, 29-12, 1453 UTC, DPRK ARQ 1200/600 LSB

11090 kHz, 30-12, 0805 UTC, DPRK ARQ 1200/600 LSB
13220 kHz, 30-12, 0808 UTC, DPRK ARQ 600/600 LSB

DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
DPRK embassy Moscow wkg DPRK embassy Berlin
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
DPRK embassy Moscow wkg DPEK embassy Bucharest
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva.
QSY freqs 11450, 12600, 16100 kHz
DPRK embassy Moscow wkg DPRK embassy Berlin. QSY freqs 13800, 14370, 14800 kHz
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva.
QSY freq 16100 kHz
DPRK embassy Moscow wkg DPRK embassy Bucharest
DPRK embassy Moscow wkg DPRK embassy Rome
DPRK embassy Moscow wkg DPRK embassy Berlin
DPRK embassy Rome wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
Unid DPRK embassy wkg DPRK embassy Moscow
Unid DPRK embassy wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK embassy Rome
Unid DPRK embassy wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
DPRK Permanent Mission to the UN, Geneva wkg DPRK embassy Bern
DPRK embassy Moscow wkg DPRK embassy Warszawa
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
Unid DPRK embassy wkg DPRK embassy Moscow
DPRK embassy Rome wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK embassy Berlin
Unid DPRK embassy wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK embassy Bucharest
DPRK embassy Moscow wkg DPRK embassy Berlin
DPRK embassy Moscow wkg DPRK embassy Berlin
DPRK embassy Moscow wkg DPRK embassy Sofia
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
DPRK embassy Moscow wkg DPRK embassy Warszawa
DPRK embassy Moscow wkg DPRK embassy Bucharest
DPRK embassy Moscow wkg DPRK embassy berlin
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
Unid DPRK embassy wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
DPRK embassy Stockholm wkg DPRK embassy Moscow
DPRK embassy Rome wkg DPRK embassy Moscow
Unid DPRK embassy wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK embassy Sofia
DPRK embassy Moscow wkg DPRK embassy Prague
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
Unid DPRK embassy wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
Unid DPRK embassy wkg DPRK embassy Moscow
Unid DPRK embassy wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK embassy Sofia
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva.
QSY freqs 16400 and 16450 kHz
Unid DPRK embassy wkg DPRK embassy Moscow
Unid DPRK embassy wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
Unid DPRK embassy wkg DPRK embassy Moscow
DPRK embassy Moscow wkg DPRK embassy Berlin. QSY freqs 16150 and 17400 kHz
Unid DPRK embassy wkg DPRK embassy Moscow
Unid DPRK embassy wkg DPRK embassy Moscow

13120 kHz, 30-12,1210 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 30-12,1225 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 30-12,1237 UTC, DPRK ARQ 600/600 LSB
 14250 kHz, 30-12,1241 UTC, DPRK ARQ 600/600 LSB
 14150 kHz, 30-12,1314 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 31-12, 0740 UTC, DPRK ARQ 600/600 LSB
 14300 kHz, 31-12, 0753 UTC, DPRK ARQ 600/600 LSB
 14200 kHz, 31-12, 0741 UTC, DPRK ARQ 600/600 LSB
 14250 kHz, 31-12, 0807 UTC, DPRK ARQ 600/600 LSB
 13120 kHz, 31-12, 0810 UTC, DPRK ARQ 600/600 LSB
 17140 kHz, 31-12, 0831 UTC, DPRK ARQ 120/600 LSB
 17140 kHz, 31-12, 0839 UTC, DPRK ARQ 600/600 LSB
 18650 kHz, 31-12, 0841 UTC, DPRK ARQ 600/600 LSB
 14150 kHz, 31-12, 0944 UTC, DPRK ARQ 600/600 LSB
 14650 kHz, 31-12, 1217 UTC, DPRK ARQ 600/600 LSB

14650 kHz, 31-12, 1224 UTC, DPRK ARQ 1200/600 LSB

13120 kHz, 31-12, 1225 UTC, DPRK ARQ 600/600 LSB
 13125 kHz, 31-12, 1225 UTC, DPRK ARQ 600/600 LSB
 16250 kHz, 31-12, 1300 UTC, DPRK ARQ 600/600 LSB
 14250 kHz, 31-12, 1335 UTC, DPRK ARQ 600/600 LSB

DPRK embassy Moscow wkg DPRK embassy Stockholm
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Bucharest
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK embassy Berlin (off 0743z)
 DPRK embassy Moscow wkg DPRK embassy Berlin
 DPRK embassy Moscow wkg DPRK embassy Prague
 DPRK embassy Moscow wkg DPRK embassy Bucharest
 DPRK embassy Moscow wkg DPRK embassy Bucharest
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK embassy Rome
 DPRK embassy Rome wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK embassy Berlin. A second KRE station appeared on top of this transmission at 1224z
 Unid DPRK embassy sending "13600" for 9 mins, on top of the Moscow-Berlin transmission
 DPRK embassy Moscow wkg DPRK embassy Stockholm
 DPRK embassy Stockholm wkg DPRK embassy Moscow
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva
 DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva

Diplomatic stations: Russia

15989 kHz, 02-12, 0755 UTC, MFSK-6
 15973 kHz, 04-12, 0809 UTC, MFSK-6
 16103 kHz, 04-12, 0925 UTC, MFSK-6
 14570 kHz, 05-12, 0922 UTC, MFSK-6
 14824 kHz, 05-12, 1014 UTC, MFSK-6
 17466 kHz, 08-12, 0801 UTC, Serdolik v2
 17466 kHz, 08-12, 0808 UTC, MFSK-6
 14871 kHz, 08-12, 0813 UTC, MFSK-6
 18177 kHz, 10-12, 0748 UTC, MFSK-6
 12112 kHz, 10-12, 0827 UTC, MFSK-66
 13458 kHz, 10-12, 0854 UTC, MFSK-66
 11156 kHz, 10-12, 0909 UTC, Serdolik v2
 10653 kHz, 12-12, 0926 UTC, MFSK-6
 15810 kHz, 14-12, 1043 UTC, MFSK-6
 14377 kHz, 15-12, 0830 UTC, MFSK-6
 12124 kHz, 16-12, 1702 UTC, MFSK-6
 19874 kHz, 16-12, 0736 UTC, MFSK-6
 17454 kHz, 16-12, 0835 UTC, MFSK-6
 18280 kHz, 17-12, 1135 UTC, MFSK-6
 20374 kHz, 17-12, 1222 UTC, MFSK-6
 18232 kHz, 18-12, 1415 UTC, Serdolik v2
 18232 kHz, 18-12, 1418 UTC, Serdolik v2
 18232 kHz, 18-12, 1421 UTC, Serdolik v2
 18232 kHz, 18-12, 1424 UTC, Serdolik v2
 18232 kHz, 18-12, 1427 UTC, Serdolik v2
 18232 kHz, 18-12, 1430 UTC, Serdolik v2
 14595 kHz, 21-12, 0726 UTC, MFSK-6
 17470 kHz, 23-12, 1043 UTC, MFSK-6
 13961 kHz, 23-12, 1051 UTC, Serdolik v2
 14970 kHz, 23-12, 1055 UTC, MFSK-6

14675 kHz, 23-12, 1132 UTC, MFSK-6
 20813 kHz, 23-12, 0942 UTC, MFSK-6
 14655 kHz, 24-12, 0747 UTC, MFSK-6
 12186 kHz, 24-12, 0842 UTC, Serdolik v2
 12199 kHz, 24-12, 0843 UTC, Serdolik v2
 13369 kHz, 24-12, 0847 UTC, MFSK-6

MFA Moscow clg 125643: Russian embassy Ulaanbaatar
 MFA Moscow clg 325614: Russian embassy Nairobi
 MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City
 MFA Moscow clg 324615: Russian embassy Madrid
 MFA Moscow clg 625413: Russian embassy Tel Aviv
 Russian diplo
 MFA Moscow clg 156234: Russian embassy Kampala
 MFA Moscow clg 156234: Russian embassy Kampala
 MFA Moscow clg 164253: Russian embassy Addis Ababa
 Russian diplo
 Russian diplo
 Russian diplo
 MFA Moscow clg 356412: Russian embassy Berlin
 MFA Moscow clg 145632: Russian embassy Algiers
 MFA Moscow clg 432516: Russian embassy Bern
 MFA Moscow clg 246531: Russian embassy Accra
 MFA Moscow clg 125643: Russian embassy Ulaanbaatar
 MFA Moscow clg 325614: Russian embassy Nairobi
 MFA Moscow clg 215346: Russian Consulate General Mumbai
 MFA Moscow clg 231654: Russian embassy Abuja
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 Russian diplo. Selcal
 MFA Moscow clg 452163: Russian embassy Kabul
 MFA Moscow clg 216354: Russian Consulate General Chennai
 Russian diplo
 MFA Moscow clg 216354: Russian Consulate General Chennai.
 Off at 1101z, back at 1104z
 MFA Moscow clg 612534: Russian embassy Ashgabat
 MFA Moscow clg 216354: Russian Consulate General Chennai
 MFA Moscow clg 164253: Russian embassy Addis Ababa
 Russian diplo. Selcal
 Russian diplo
 MFA Moscow clg 412356: Russian embassy Budapest

14812 kHz, 24-12, 0902 UTC, MFSK-6	MFA Moscow clg 263145: Russian embassy Prague
11156 kHz, 26-12, 0734 UTC, Serdolik v2	Russian diplo. Selcal
11156 kHz, 26-12, 0736 UTC, Serdolik v2	Russian diplo. Selcal
11158 kHz, 26-12, 0737 UTC, Serdolik v2	Russian diplo. Very short message
17537 kHz, 26-12, 0737 UTC, Serdolik v2	Russian diplo
13427 kHz, 26-12, 0742 UTC, MFSK-6	MFA Moscow clg 341265: Unid Russian embassy
11158 kHz, 26-12, 0747 UTC, Serdolik v2	Russian diplo
14501 kHz, 26-12, 0909 UTC, MFSK-66	Russian diplo
12177 kHz, 26-12, 0916 UTC, MFSK-6	MFA Moscow clg 356412: Russian embassy Berlin
11471 kHz, 26-12, 0922 UTC, MFSK-66	Russian diplo
16060 kHz, 28-12, 0805 UTC, MFSK-6	MFA Moscow clg 261453: Russian embassy Cairo

Diplomatic stations: Tunisia

11111 kHz, 15-12, 1143 UTC, Mil-STD-188-141A	STAT151: MFA Tunis clg STAT24: Tunisian embassy Rome
12140 kHz, 15-12, 1243 UTC, Mil-STD-188-141A	STAT24: Tunisian embassy Rome sounding
16285 kHz, 16-12, 0643 UTC, Mil-STD-188-141A	STAT16: Unid Tunisian embassy clg STAT155: MFA Tunis
18295 kHz, 16-12, 0847 UTC, Mil-STD-188-141A	STAT155: MFA Tunis clg STAT13: Tunisian embassy Cairo
18295 kHz, 16-12, 0902 UTC, Mil-STD-188-141A	STAT12: Tunisian embassy Ankara clg STAT151: MFA Tunis

Diplomatic stations: U.S.A.

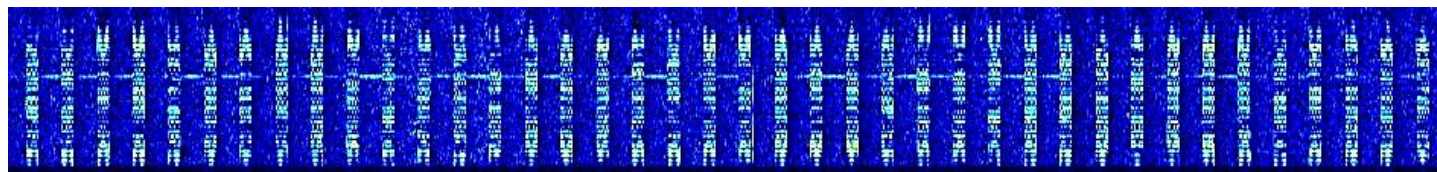
11168.6 kHz, 12-12, 1253 UTC, Mil-STD-188-141A/USB	KAL71 Consulate General Thessaloniki clg KXV53 Unid
11168.6 kHz, 12-12, 1257 UTC, Mil-STD-188-141A/USB	KAL71 Consulate General Thessaloniki clg KWX57 US embassy Warsaw
11168.6 kHz, 12-12, 1303 UTC, Mil-STD-188-141A/USB	KAL71 Consulate General Thessaloniki clg KVV71 US embassy Ankara
11168.6 kHz, 12-12, 1303 UTC, Mil-STD-188-141A/USB	KWV71 US embassy Ankara clg KAL71 Consulate General Thessaloniki
11168.6 kHz, 12-12, 1305 UTC, Mil-STD-188-141A/USB	KAL71 Consulate General Thessaloniki clg KWZ99 US embassy Athens
11168.6 kHz, 12-12, 1305 UTC, Mil-STD-188-141A/USB	KWZ99 US embassy Athens clg KAL71 Consulate General Thessaloniki

UTILITY ROUND-UP

Unid stations

Unid a.k.a. New Buzzer

6830/7250/7769 kHz, 15-12, 2000 UTC
 6830/7250/7769 kHz, 16-12, 2037 UTC
 6830/7250/7769 kHz, 18-12, 2036 UTC
 7589/8049/8644 kHz, 19-12, 1728 UTC
 6830/7250/7769 kHz, 19-12, 2123 UTC
 6595/6920/7350 kHz, 21-12, 1500 UTC
 7520/7770/8425 kHz, 23-12, 2049 UTC
 7520/7770/8425 kHz, 24-12, 1846 UTC
 7520/7770/8425 kHz, 25-12, 2109 UTC
 7520/7770/8425 kHz, 26-12, 1712 UTC
 6780/8049 kHz, 28-12, 1825 UTC. Third freq not found
 6780/8049 kHz, 30-12, 1921 UTC. Third freq not found
 6780/8049 kHz, 31-12, 2117 UTC. Third freq not found



Unid station

Unid station. Might be M23. Not heard after 31-12. Strong in Italy and France.

Unid station heard in Italy on 5921 kHz, 26-12, 1620-1713 UTC, CW

87 29 74 56 62 14 74 52 63 ECHO 98 ROMEO 46 ALPHA 53
 87 29 74 56 62 14 74 52 63 ECHO 98 ROMEO 46 ALPHA 53
 UTC 00 00 00 00 00 00 00 00 00 00 ECHO 98 ROMEO 46 ALPHA 53
 UTC 00 00 00 00 00 00 00 00 00 00 ECHO 98 ROMEO 46 ALPHA 53
 87 29 74 56 62 14 74 52 63 ECHO 98 ROMEO 46 ALPHA 53 GREEN 12
 END

A similar message was also heard by Andrea in Italy on **5921 kHz, 24-12 at 1631 UTC.**

Also copied in France by Jo on **31-12 at 1731 UTC on 10120 kHz:** 1256 87 2974 56 62 14 74 52 63 ECHO 98 ROMEO 56 ALPHA 53 GREEN F69 C. This transmission started at before 0900 and was still going on at 1735z.

RUSSIAN MILITARY TRANSCRIPTS

Monolith stations

5448 kHz, 26-12, 0529 UTC Pip
 4625 kHz, 26-12, 0625 UTC Buzzer
 4325 kHz, 26-12, 0631 UTC Dash
 5367 kHz, 26-12, 0631 UTC Pip
 10461 kHz, 27-12, 0710 kHz Dash
 3363 kHz, 26-12, 1719 UTC Squeaky Wheel
 3756 kHz, 26-12, 1719 UTC Pip

Squeaky Wheel morse channel

4108 kHz, 26-12, 1721 UTC IDBW clg 9P4X twice, nothing else heard
 4108 kHz, 28-12 IDBW clg 9P4X, AYO2, KTT7, LPCM and a fifth station (_ OXP ?)
 4108 kHz, 29-12 AYO2 DE IDBW QTC ZAN K
 AYO2 AYO2 AYO2 DE IDBW IDBW QTC ZAN 028 34 29 7200 028 = ZAN 869 = 46097 ... 2903_ 869 K
 later msg 007 TS 0700 and msg 070 TS 0800
 4108 kHz, 30-12 AYO2 DE IDBW QTC ZBP K followed by 5 msgs beginning with message 135 ts 2220

Buzzer morse channel

Logged by Jay and TJ

7678 kHz, 29-12, 1241 UTC: XXX XXX 3V3W 3V3W 77449 SPLOChNOJ 9658 8838
 1246 UTC: XXX XXX MFM6 MFM6 83464 KANITELXQIK 4487 4787
 1250 UTC: XXX XXX 4U4N 4U4N 33531 PRONIKANIE 4267 8258
 1255 UTC: XXX XXX GVFL GVFL 99463 BEZWERHIJ 7798 5032
 1300 UTC: XXX XXX KG46 KG46 12892 UZINOSYÖ 3816 6361
 1304 UTC: XXX XXX OVCU OVCU 84317 OTBOJQIK 3807 9039
 1309 UTC: XXX XXX V9UI V9UI 68952 KRANOGURT 1509 9279
 1314 UTC: XXX XXX 1Y7S 1Y7S 27930 AKYNOChPUR 5405 4092
 1320 UTC: XXX XXX X4AY X4AY 22587 LINCOZAL 4959 6913
 1325 UTC: XXX XXX YDTQ YDTQ 96695 WOLXNODUMIE 1898 8331

7980.3 kHz, 31-12 TIQT DE OSW4 QWS NO QCZ K

Morse transmissions

Russian Military morse traffic

NVTI broadcasts, logged by Trond

7980.3 KHZ, 08-12, 1028 UTC XXX XXX NVTI NVTI PERENAEM 8730 2048 K
 7980.3 KHZ, 08-12 XXX XXX NVTI NVTI 05659 PADODOLL (?) 8170 5068 (?) K
 7980.3 KHZ, 08-12 XXX XXX NVTI NVTI 82331 ER?OWUZ 1362 0715 K
 7980.3 KHZ, 11-12, 1110 UTC XXX XXX NVTI NVTI 91256 BERMUDSKIJ 5964 0140 K

7980.3 KHZ, 11-12	XXX XXX NVTI NVTI 09224 VUIROZAGS 1745 1643 K
7980.3 KHZ, 15-12	XXX XXX NVTI NVTI 52710 WHODOWUNT 9051 8779 K
7980.3 KHZ, 15-12	XXX XXX NVTI NVTI LINCOKRIN 1089 3317 K
2858.9 KHZ, 16-12	XXX XXX NVTI NVTI 67939 BUZOTERKA 3226 4768 K
7980.3 KHZ, 17-12	XXX XXX NVTI NVTI 32409 TATOMARI 3995 2030 K

Russian Navy morse traffic

6461 kHz, 05-12, 0949-1015 UTC, RMP: Russian navy Kaliningrad

i.p. 1276 52976 69821 38169 05237 49478 69239 38580 59560 70313
11198 05012 AR

REO REO REO DE RMP RMP

QTC 996 15 5 1015 996 =

86278 92547 83789 31568 20812 23844 36932 03540 30651 13780 77512 30037 14240 03904 05014 =

REO REO REO DE RMP RMP

QTC 996 15 5 1015 996 =

86278 92547 83789 31568 20812 23844 36932 03540 30651 13780 77512 30037 14240 03904 05014 AR

REO REO REO DE RMP RMP

QTC 569 11 5 1016 569 =

35459 87079 16757 06179 203 08 18989 25902 71404 57551 81836 05010 =

REO REO REO DE RMP RMP

QTC 569 11 5 1016 569 =

35459 87079 16757 06179 203 08 18989 25902 71404 57551 81836 05010 AR

VVV UCAC4 UCAC4 UCAC4 DE RMP RMP QSA? QTC K

VVV UCAC4 UCAC4 UCAC4 DE RMP RMP QSA? QTC K

VVV UCAC4 UCAC4 UCAC4 DE RMP RMP QSA? QTC K

UCAC4 UCAC4 UCAC4 DE RMP RMP

QTC 808 18 5 1017 808 =

84240 42155 17864 47102 46934 71990 06252 22626 86419 37602 64970 88260 20011 38953 54336 67153 84985 05017 =

UCAC4 UCAC4 UCAC4 DE RMP RMP

QTC 808 18 5 1017 808 =

84240 42155 17864 47102 46934 71990 0622 22626 86419 37602 64970 88260 20011 38953 54336 67153 84985 05017 AR

REO REO REO DE RMP RMP

QTC 301 16 5 1018 301 = etc.

8801 kHz, 09-12, 1453 UTC

RDL RDL RDL 86689 73615 86689 73615 86689 73615 K

RDL RDL RDL 80082 73105 80082 73105 80082 73105 K

9145 kHz, 31-12, 1444, 1449, 1459, 1512, 1531, 1545 UTC

VVV RMPV RMPV RMPV DE RMX RMX QSA? K

9145 kHz, 31-12, 1553, 1556, 1600, 1616, 1646, 1705, 1706, 1707, 1717 UTC

VVV RMIF RMIF RMI DE RMX RMX QSA? K

LOGS SECTION

We have over 3100 logs entries for December. That's a lot! Thanks everyone!

Code	Date	UTC	Freq	Day	Details	Mode	Contributor
BUL	9-12	0822	14755	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	9-12	1358	18455	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	10-12	0822	14755	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	10-12	0910	12156	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	10-12	1322	17440	Wed	FIM: Bulgarian embassy Helsinki wkg LZG7: MFA Sofia on 18035 kHz	RFSM-8000	(AB)
BUL	10-12	1358	18455	Wed	Bulgarian diplo	RFSM-8000	(AB)
BUL	11-12	0920	14755	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	11-12	1321	17440	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	11-12	1355	18455	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	12-12	0922	14755	Fri	VJZ: Unid Bulgarian embassy wkg LZO: MFA Sofoa on 14790 kHz	RFSM-8000	(AB)
BUL	12-12	1320	17440	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	12-12	1358	18455	Fri	Bulgarian diplo. ORB wkg DOK on 18055 kHz	RFSM-8000	(AB)
BUL	15-12	0921	14755	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	15-12	1321	17440	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	15-12	1356	18455	Mon	Bulgarian diplo	RFSM-8000	(AB)
BUL	18-12	0841	14755	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	18-12	1322	17440	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	18-12	1358	18455	Thu	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-12	0822	9375	Fri	BOK: Bulgarian embassy Cyprus	RFSM-8000	(AB)
BUL	19-12	0859	12156	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-12	0922	14755	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-12	1332	17440	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	19-12	1357	18455	Fri	Bulgarian diplo	RFSM-8000	(AB)
BUL	23-12	0818	17440	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	23-12	0839	18455	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	23-12	0857	12156	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	23-12	0918	14755	Tue	Bulgarian diplo	RFSM-8000	(AB)
BUL	23-12	0929	13974	Tue	Bulgarian diplo	RFSM-8000	(AB)
E06	17-12	0858	10755	Wed	Test: 975 975 975	USB	(PY)
E06	17-12	0900	10755	Wed	975 975 975 00000 975 975 975 00000 975 975 975	USB	(PY)
E06	17-12	0905	10755	Wed	975 493 52 94018 49438 88309 ... 16417 12002 55770 493 52 00000	USB/LSB	(PY)
E07	2-12	1500	13539	Tue	512 512 512 000	USB	(AB/HFD/Lac)
E07	2-12	1520	12139	Tue	512 512 512 000	USB	(AB/HFD)
E07	4-12	1000	17469	Thu	427 427 427 1 941 144 941 144 29541 09628 40326 ... 60152 03235 50506 000 000	USB	(AB/HFD)
E07	4-12	1020	16217	Thu	427 427 427 1 941 144 941 144 29541 09628 40326 ... 60152 03235 50506 000 000	USB	(AB/HFD)
E07	4-12	1040	14794	Thu	427 427 427 1 941 144 941 144 29541 09628 40326 ... 60152 03235 50506 000 000	USB	(AB/HFD)

E07	5-12	1500	13539	Fri	512 512 512 000	USB	(AB)
E07	5-12	1520	12139	Fri	512 512 512 000	USB	(AB)
E07	6-12	1000	17469	Sat	427 427 427 1 941 144 941 144 29541 09628 40326 ... 60152 03235 50506 000 000	USB	(AB/Lac)
E07	6-12	1020	16217	Sat	427 427 427 1 941 144 941 144 29541 09628 40326 ... 60152 03235 50506 000 000	USB	(AB/Lac)
E07	6-12	1040	14794	Sat	427 427 427 1 941 144 941 144 29541 09628 40326 ... 60152 03235 50506 000 000	USB	(AB/Lac)
E07	9-12	1500	13539	Tue	512 512 512 1 6928 137 6928 137 28463 06971 29908 ... 11384 05100 63257 000 000	USB	(AB)
E07	9-12	1520	12139	Tue	512 512 512 1 6928 137 6928 137 28463 06971 29908 ... 11384 05100 63257 000 000	USB	(AB)
E07	9-12	1540	10239	Tue	512 512 512 1 6928 137 6928 137 28463 06971 29908 ... 11384 05100 63257 000 000	USB	(AB)
E07	11-12	1000	17469	Thu	427 427 427 000	USB	(AB)
E07	11-12	1020	16217	Thu	427 427 427 000	USB	(AB)
E07	12-12	1500	13539	Fri	512 512 512 1 6928 137 6928 137 28463 06971 29908 ... 11384 05100 63257 000 000	USB	(AB)
E07	12-12	1520	12139	Fri	512 512 512 1 6928 137 6928 137 28463 06971 29908 ... 11384 05100 63257 000 000	USB	(AB)
E07	12-12	1540	10239	Fri	512 512 512 1 6928 137 6928 137 28463 06971 29908 ... 11384 05100 63257 000 000	USB	(AB)
E07	13-12	1000	17469	Sat	427 427 427 000	USB	(AB)
E07	13-12	1020	16217	Sat	427 427 427 000	USB	(AB)
E07	16-12	1500	13539	Tue	512 512 512 000	USB	(AB)
E07	16-12	1520	12139	Tue	512 512 512 000	USB	(AB)
E07	18-12	1000	17469	Thu	427 427 427 1 767 189 767 189 87841 42444 26762 ... 81875 09598 30934 000 000	USB	(AB/TJ/Lac)
E07	18-12	1020	16217	Thu	427 427 427 1 767 189 767 189 87841 42444 26762 ... 81875 09598 30934 000 000	USB	(AB/Lac)
E07	18-12	1040	14794	Thu	427 427 427 1 767 189 767 189 87841 42444 26762 ... 81875 09598 30934 000 000	USB	(AB/Lac)
E07	19-12	1500	13539	Fri	512 512 512 000	USB	(AB)
E07	19-12	1520	12139	Fri	512 512 512 000	USB	(AB)
E07	20-12	1000	17469	Sat	427 427 427 1 767 189 767 189 87841 42444 26762 ... 81875 09598 30934 000 000	USB	(AB)
E07	20-12	1020	16217	Sat	427 427 427 1 767 189 767 189 87841 42444 26762 ... 81875 09598 30934 000 000	USB	(AB)
E07	20-12	1040	14794	Sat	427 427 427 1 767 189 767 189 87841 42444 26762 ... 81875 09598 30934 000 000	USB	(AB)
E07	23-12	1500	13539	Tue	512 512 512 1 1905 189 1905 189 61254 41492 27020 ... 17630 83336 73471 000 000	USB	(AB/Lac)
E07	23-12	1500	13539	Tue	512 1 1905 189	USB	(Lac)
E07	23-12	1520	12139	Tue	512 512 512 1 1905 189 1905 189 61254 41492 27020 ... 17630 83336 73471 000 000	USB	(AB/Lac)
E07	23-12	1540	10239	Tue	512 512 512 1 1905 189 1905 189 61254 41492 27020 ... 17630 83336 73471 000 000	USB	(AB/Lac)
E07	25-12	1000	17469	Thu	427 427 427 000	USB	(AB)
E07	25-12	1020	16217	Thu	427 427 427 000	USB	(AB/Lac)
E07	26-12	1500	13539	Fri	512 512 512 1 1905 189 1905 189 61254 41492 27020 ... 17630 83336 73471 000 000	USB	(AB/Lac)

E07	26-12	1520	12139	Fri	512 512 512 1 1905 189 1905 189 61254 41492 27020 ... 17630 83336 73471 000 000	USB	(AB)
E07	26-12	1540	10239	Fri	512 512 512 1 1905 189 1905 189 61254 41492 27020 ... 17630 83336 73471 000 000	USB	(AB)
E07	27-12	1000	17469	Sat	427 427 427 000	USB	(AB)
E07	27-12	1020	16217	Sat	427 427 427 000	USB	(AB)
E07	30-12	1500	13539	Tue	512 512 512 000	USB	(AB)
E07	30-12	1520	12139	Tue	512 512 512 000	USB	(AB)
E11	1-12	1300	4909	Mon	312/00 Out	USB	(AB)
E11	1-12	1745	12924	Mon	249/00 Out	USB	(AB/Lac)
E11	1-12	1900	6849	Mon	646/00 Out	USB	(AB/Lac)
E11	2-12	0645	7840	Tue	no transmission	USB	(Lac)
E11	2-12	0700	6804	Tue	570/00 Out	USB	(AB/Lac)
E11	2-12	0715	14975	Tue	634/00 Out	USB	(AB/Lac)
E11	2-12	0745	23031	Tue	224/00 Out	USB	(AB/Lac)
E11	2-12	0820	14611	Tue	132/00 Out	USB	(AB/Lac)
E11	2-12	0845	17378	Tue	155/00 Out	USB	(AB/Lac)
E11	2-12	1000	9079	Tue	309/00 Out	USB	(AB)
E11	2-12	1205	11559	Tue	469/00 Out	USB	(AB/Lac)
E11	2-12	1430	13363	Tue	911/00 Out	USB	(AB)
E11	2-12	1605	5432	Tue	233/00 Out	USB	(AB/Lac)
E11	3-12	0315	8102	Wed	253/00 Out	USB	(AB)
E11	3-12	0600	20286	Wed	940/00 Out	USB	(AB)
E11	3-12	0645	14972	Wed	414/00 Out	USB	(AB)
E11	3-12	0715	20167	Wed	750/00 Out	USB	(AB)
E11	3-12	0745	17378	Wed	340/00 Out	USB	(AB)
E11	3-12	0820	14611	Wed	130/00 Out	USB	(AB)
E11	3-12	0845	12067	Wed	716/00 Out	USB	(AB)
E11	3-12	0900	15915	Wed	537/00 Out	USB	(AB)
E11	3-12	0930	7469	Wed	279/00 Out	USB	(AB)
E11	3-12	1045	14410	Wed	691/00 Out	USB	(AB)
E11	3-12	1205	11559	Wed	462/00 Out	USB	(AB)
E11	3-12	1610	4505	Wed	No transmission	USB	(AB)
E11	3-12	1715	5082	Wed	No transmission	USB	(AB)
E11	4-12	0505	12153	Thu	No transmission	USB	(AB)
E11	4-12	0645	12385	Thu	No transmission	USB	(AB)
E11	4-12	0720	8180	Thu	No transmission	USB	(AB)
E11	4-12	0745	23031	Thu	No transmission	USB	(AB)
E11	4-12	0845	17378	Thu	No transmission	USB	(AB)
E11	4-12	0930	7469	Thu	No transmission	USB	(AB)
E11	4-12	1300	4909	Thu	319/00 Out	USB	(AB)
E11	4-12	1530	5409	Thu	262/00 Out	USB	(AB)

E11	4-12	1900	6849	Thu	646/00 Out	USB	(AB)
E11	4-12	2000	5082	Thu	520/00 Out	USB	(AB)
E11	5-12	0600	7850	Fri	353/00 Out	USB	(AB)
E11	5-12	0700	6804	Fri	574/00 Out	USB	(AB)
E11	5-12	0715	14975	Fri	634/00 Out	USB	(AB)
E11	5-12	0720	8180	Fri	434/00 Out	USB	(AB)
E11	5-12	0745	17378	Fri	349/00 Out	USB	(AB)
E11	5-12	0830	23353	Fri	184/00 Out	USB	(AB)
E11	5-12	1000	9079	Fri	Test tone. No transmission	USB	(AB)
E11	5-12	1715	5082	Fri	972/00 Out	USB	(AB)
E11	5-12	1815	6849	Fri	926/00 Out	USB	(AB)
E11	6-12	0700	5371	Sat	492/00 Out	USB	(AB)
E11	6-12	1430	13363	Sat	912/00 Out	USB	(AB)
E11	6-12	1610	4505	Sat	395/00 Out	USB	(AB)
E11	6-12	1645	4909	Sat	368/00 Out	USB	(AB)
E11	7-12	0600	7850	Sun	352/00 Out	USB	(AB)
E11	7-12	0700	5371	Sun	496/00 Out	USB	(AB)
E11	7-12	1605	5432	Sun	230/00 Out	USB	(AB)
E11	7-12	1645	4909	Sun	366/00 Out	USB	(AB)
E11	7-12	1815	6849	Sun	929/00 Out	USB	(AB)
E11	7-12	1910	10487	Sun	612/00 Out	USB	(AB)
E11	7-12	2000	5082	Sun	525/00 Out	USB	(AB)
E11	8-12	0315	8102	Mon	258/00 Out	USB	(AB)
E11	8-12	0600	20286	Mon	941/00 Out	USB	(AB)
E11	8-12	0645	14972	Mon	416/00 Out	USB	(AB)
E11	8-12	0715	20167	Mon	754/00 Out	USB	(AB)
E11	8-12	0745	10213	Mon	261/00 Out	USB	(AB)
E11	8-12	0830	23353	Mon	183/00 Out	USB	(AB)
E11	8-12	0845	12067	Mon	716/00 Out	USB	(AB)
E11	8-12	0900	15915	Mon	535/00 Out	USB	(AB)
E11	8-12	1045	14410	Mon	698/00 Out	USB	(AB)
E11	8-12	1300	4909	Mon	311/00 Out	USB	(AB)
E11	8-12	1745	12924	Mon	246/00 Out	USB	(AB)
E11	8-12	1900	6849	Mon	649/00 Out	USB	(AB)
E11	9-12	0645	12385	Tue	518/00 Out	USB	(AB)
E11	9-12	0700	6804	Tue	575/00 Out	USB	(AB)
E11	9-12	0715	14975	Tue	631/00 Out	USB	(AB)
E11	9-12	0745	23031	Tue	220/00 Out	USB	(AB)
E11	9-12	0820	14611	Tue	136/00 Out	USB	(AB)
E11	9-12	0845	17378	Tue	154/00 Out	USB	(AB)
E11	9-12	1000	9079	Tue	305/00 Out	USB	(AB)
E11	9-12	1205	11559	Tue	462/00 Out	USB	(AB)

E11	9-12	1430	13363	Tue	911/00 Out	USB	(AB)
E11	9-12	1605	5432	Tue	232/00 Out	USB	(AB)
E11	10-12	0315	8102	Wed	256/00 Out	USB	(AB)
E11	10-12	0600	20286	Wed	944/00 Out	USB	(AB-POL)
E11	10-12	0645	14972	Wed	414/00 Out	USB	(AB)
E11	10-12	0715	20167	Wed	759/00 Out	USB	(AB-POL)
E11	10-12	0745	17378	Wed	348/00 Out	USB	(AB)
E11	10-12	0820	14611	Wed	138/00 Out	USB	(AB)
E11	10-12	0845	12067	Wed	715/00 Out	USB	(AB)
E11	10-12	0900	15915	Wed	538/00 Out	USB	(AB)
E11	10-12	0930	7469	Wed	279/00 Out	USB	(AB)
E11	10-12	1045	14410	Wed	693/00 Out	USB	(AB)
E11	10-12	1205	11559	Wed	469/00 Out	USB	(AB)
E11	10-12	1610	4505	Wed	390/00 Out	USB	(AB)
E11	10-12	1715	5082	Wed	976/00 Out	USB	(AB)
E11	11-12	0645	12385	Thu	510/00 Out	USB	(AB)
E11	11-12	0720	8180	Thu	435/00 Out	USB	(AB)
E11	11-12	0745	23031	Thu	220/00 Out	USB	(AB)
E11	11-12	0845	17378	Thu	150/00 Out	USB	(AB)
E11	11-12	0930	7469	Thu	279/00 Out	USB	(AB)
E11	11-12	1300	4909	Thu	315/00 Out	USB	(AB)
E11	11-12	1530	5409	Thu	261/00 Out	USB	(AB)
E11	11-12	1900	6849	Thu	646/00 Out	USB	(AB)
E11	11-12	2000	5082	Thu	525/00 Out	USB	(AB)
E11	12-12	0600	7850	Fri	353/00 Out	USB	(AB)
E11	12-12	0700	6804	Fri	570/00 Out	USB	(AB)
E11	12-12	0715	14975	Fri	630/00 Out	USB	(AB)
E11	12-12	0720	8180	Fri	430/00 Out	USB	(AB)
E11	12-12	0745	17378	Fri	348/00 Out	USB	(AB)
E11	12-12	0830	23353	Fri	180/00 Out	USB	(AB)
E11	12-12	1000	9079	Fri	305/00 Out	USB	(AB)
E11	12-12	1715	5082	Fri	977/00 Out	USB	(AB)
E11	12-12	1815	6849	Fri	929/00 Out	USB	(AB)
E11	12-12	1910	10487	Fri	610/00 Out	USB	(AB)
E11	13-12	0700	5371	Sat	492/00 Out	USB	(AB)
E11	13-12	1430	13363	Sat	912/00 Out	USB	(AB)
E11	13-12	1645	4909	Sat	367/00 Out	USB	(AB)
E11	14-12	0600	7850	Sun	359/00 Out	USB	(AB)
E11	14-12	0700	5371	Sun	498/00 Out	USB	(AB)
E11	14-12	1605	5432	Sun	232/00 Out	USB	(AB)
E11	14-12	1645	4909	Sun	363/00 Out	USB	(AB)
E11	14-12	1815	6849	Sun	920/00 Out	USB	(AB)

E11	14-12	1910	10487	Sun	617/00 Out	USB	(AB)
E11	14-12	2000	5082	Sun	525/00 Out	USB	(AB)
E11	15-12	0315	8102	Mon	258/00 Out	USB	(AB)
E11	15-12	0600	20286	Mon	946/00 Out	USB	(AB-POL)
E11	15-12	0645	14972	Mon	415/00 Out	USB	(AB-POL)
E11	15-12	0715	20167	Mon	751/00 Out	USB	(AB-POL)
E11	15-12	0745	10213	Mon	260/00 Out	USB	(AB)
E11	15-12	0830	23353	Mon	188/00 Out	USB	(AB)
E11	15-12	0845	12067	Mon	711/00 Out	USB	(AB)
E11	15-12	0900	15915	Mon	538/00 Out	USB	(AB)
E11	15-12	1045	14410	Mon	698/00 Out	USB	(AB)
E11	15-12	1300	4909	Mon	314/00 Out	USB	(AB)
E11	15-12	1745	12924	Mon	247/00 Out	USB	(AB-POL)
E11	15-12	1900	6849	Mon	649/00 Out	USB	(AB)
E11	16-12	0645	12385	Tue	518/00 Out	USB	(AB)
E11	16-12	0700	6804	Tue	579/00 Out	USB	(AB)
E11	16-12	0715	14975	Tue	635/00 Out	USB	(AB)
E11	16-12	0820	14611	Tue	132/00 Out	USB	(AB)
E11	16-12	0845	17378	Tue	151/00 Out	USB	(AB)
E11	16-12	1000	9079	Tue	300/00 Out	USB	(AB)
E11	16-12	1205	11559	Tue	464/00 Out	USB	(AB)
E11	16-12	1430	13363	Tue	914/00 Out	USB	(AB)
E11	16-12	1605	5432	Tue	233/00 Out	USB	(AB)
E11	17-12	0315	8102	Wed	250/00 Out	USB	(AB)
E11	17-12	0645	14972	Wed	416/00 Out	USB	(AB-POL)
E11	17-12	0715	20167	Wed	757/00 Out	USB	(AB-POL)
E11	17-12	0745	17378	Wed	Unreadable	USB	(AB)
E11	17-12	0820	14611	Wed	134/00 Out	USB	(AB)
E11	17-12	0845	12067	Wed	719/00 Out	USB	(AB)
E11	17-12	0900	15915	Wed	535/00 Out	USB	(AB)
E11	17-12	1045	14410	Wed	692/00 Out	USB	(AB)
E11	17-12	1205	11559	Wed	463/00 Out	USB	(AB)
E11	17-12	1610	4505	Wed	396/00 Out	USB	(AB)
E11	17-12	1715	5082	Wed	970/00 Out	USB	(AB)
E11	18-12	0645	12385	Thu	515/00 Out	USB	(AB)
E11	18-12	0720	8180	Thu	438/00 Out	USB	(AB)
E11	18-12	0845	17378	Thu	157/00 Out	USB	(AB)
E11	18-12	1300	4909	Thu	313/00 Out	USB	(AB)
E11	18-12	1530	5409	Thu	267/00 Out	USB	(AB)
E11	18-12	1900	6849	Thu	644/00 Out	USB	(AB)
E11	18-12	2000	5082	Thu	524/00 Out	USB	(AB)
E11	19-12	0600	7850	Fri	351/00 Out	USB	(AB)

E11	19-12	0700	6804	Fri	570/00 Out	USB	(AB)
E11	19-12	0720	8180	Fri	430/00 Out	USB	(AB)
E11	19-12	0745	17378	Fri	348/00 Out	USB	(AB)
E11	19-12	0830	23353	Fri	185/00 Out	USB	(AB)
E11	19-12	1000	9079	Fri	304/00 Out	USB	(AB)
E11	19-12	1715	5082	Fri	977/00 Out	USB	(AB)
E11	19-12	1815	6849	Fri	922/00 Out	USB	(AB)
E11	19-12	1910	10487	Fri	614/00 Out	USB	(AB)
E11	20-12	0700	5371	Sat	491/00 Out	USB	(AB)
E11	20-12	1430	13363	Sat	917/00 Out	USB	(AB)
E11	20-12	1610	4505	Sat	394/00 Out	USB	(AB)
E11	20-12	1645	4909	Sat	363/00 Out	USB	(AB)
E11	21-12	0600	7850	Sun	352/00 Out	USB	(AB)
E11	21-12	0700	5371	Sun	498/00 Out	USB	(AB)
E11	21-12	1605	5432	Sun	231/00 Out	USB	(AB)
E11	21-12	1645	4909	Sun	360/00 Out	USB	(AB)
E11	21-12	1815	6849	Sun	929/00 Out	USB	(AB)
E11	21-12	1910	10487	Sun	611/00 Out	USB	(AB)
E11	21-12	2000	5082	Sun	525/00 Out	USB	(AB)
E11	22-12	0315	8102	Mon	259/00 Out	USB	(AB)
E11	22-12	0600	20286	Mon	941/00 Out	USB	(AB-POL)
E11	22-12	0715	20167	Mon	757/00 Out	USB	(AB)
E11	22-12	0745	10213	Mon	268/00 Out	USB	(AB)
E11	22-12	0830	23353	Mon	184/00 Out	USB	(AB)
E11	22-12	0845	12067	Mon	716/00 Out	USB	(AB)
E11	22-12	0900	15915	Mon	536/00 Out	USB	(AB)
E11	22-12	1045	14410	Mon	691/00 Out	USB	(AB)
E11	22-12	1300	4909	Mon	312/00 Out	USB	(AB)
E11	22-12	1900	6849	Mon	647/00 Out	USB	(AB)
E11	23-12	0645	12385	Tue	511/00 Out	USB	(AB)
E11	23-12	0700	6804	Tue	570/00 Out	USB	(AB)
E11	23-12	0715	14975	Tue	No transmission	USB	(AB)
E11	23-12	0745	23031	Tue	220/00 Out	USB	(AB)
E11	23-12	0820	14611	Tue	134/00 Out	USB	(AB/Lac)
E11	23-12	0845	17378	Tue	152/00 Out	USB	(AB/Lac)
E11	23-12	1000	9079	Tue	302/00 Out	USB	(AB)
E11	23-12	1205	11559	Tue	462/00 Out	USB	(AB)
E11	23-12	1430	13363	Tue	911/00 Out	USB	(AB/Lac)
E11	23-12	1605	5432	Tue	236/00 Out	USB	(AB)
E11	24-12	0315	8102	Wed	256/00 Out	USB	(TM)
E11	24-12	0600	20286	Wed	941/00 Out	USB	(AB-POL)
E11	24-12	0715	20167	Wed	752/00 Out	USB	(AB-POL)

E11	24-12	0745	17378	Wed	340/00 Out	USB	(AB)
E11	24-12	0820	14611	Wed	131/00 Out	USB	(AB/Lac)
E11	24-12	0845	12067	Wed	714/00 Out	USB	(AB/Lac)
E11	24-12	0900	15915	Wed	536/00 Out	USB	(AB/Lac)
E11	24-12	0930	7469	Wed	275/00 Out	USB	(AB/Lac)
E11	24-12	1045	14410	Wed	698/00 Out	USB	(AB)
E11	24-12	1205	11559	Wed	466/00 Out	USB	(AB)
E11	24-12	1610	4505	Wed	394/00 Out	USB	(AB)
E11	24-12	1715	5082	Wed	974/00 Out	USB	(AB)
E11	25-12	0645	12385	Thu	511/00 Out	USB	(AB)
E11	25-12	0720	8180	Thu	432/00 Out	USB	(AB)
E11	25-12	0745	23031	Thu	228/00 Out	USB	(AB)
E11	25-12	0845	17378	Thu	157/00 Out	USB	(AB)
E11	25-12	0930	7469	Thu	271/00 Out	USB	(AB)
E11	25-12	1300	4909	Thu	310/00 Out	USB	(AB)
E11	25-12	1530	5409	Thu	266/00 Out	USB	(AB)
E11	25-12	1900	6849	Thu	647/00 ? (barely audible) Out	USB	(AB)
E11	25-12	2000	5082	Thu	522/00 Out	USB	(AB)
E11	26-12	0600	7850	Fri	358/00 Out	USB	(AB)
E11	26-12	0700	6804	Fri	574/00 Out	USB	(AB)
E11	26-12	0720	8180	Fri	439/00 Out	USB	(AB/Lac)
E11	26-12	0745	17378	Fri	344/00 Out	USB	(AB/Lac)
E11	26-12	0830	23353	Fri	183/00 Out	USB	(AB/Lac)
E11	26-12	1000	9079	Fri	307/00 Out	USB	(AB)
E11	26-12	1715	5082	Fri	972/00 Out	USB	(AB)
E11	26-12	1815	6849	Fri	925/00 Out	USB	(AB)
E11	26-12	1910	10487	Fri	612/00 Out	USB	(AB)
E11	27-12	0700	5371	Sat	498/00 Out	USB	(AB)
E11	27-12	1430	13363	Sat	918/00 Out	USB	(AB)
E11	27-12	1610	4505	Sat	392/00 Out	USB	(AB)
E11	27-12	1645	4909	Sat	365/00 Out	USB	(AB)
E11	28-12	0600	7850	Sun	350/00 Out	USB	(AB)
E11	28-12	0700	5371	Sun	498/00 Out	USB	(AB)
E11	28-12	1605	5432	Sun	235/00 Out	USB	(AB)
E11	28-12	1645	4909	Sun	360/00 Out	USB	(AB)
E11	28-12	1745	12924	Sun	240/00 Out	USB	(AB-POL)
E11	28-12	1815	6849	Sun	924/00 Out	USB	(AB)
E11	28-12	1910	10487	Sun	611/00 Out	USB	(AB)
E11	28-12	2000	5082	Sun	527/00 Out	USB	(AB)
E11	29-12	0315	8102	Mon	251/00 Out	USB	(TM)
E11	29-12	0600	20286	Mon	945/00 Out	USB	(AB-POL)
E11	29-12	0715	20167	Mon	751/00 Out	USB	(AB/Lac)

E11	29-12	0745	10213	Mon	267/00 Out	USB	(AB/Lac)
E11	29-12	0830	23353	Mon	189/00 Out	USB	(AB/Lac)
E11	29-12	0845	12067	Mon	719/00 Out	USB	(AB/Lac)
E11	29-12	0900	15915	Mon	536/00 Out	USB	(AB/Lac)
E11	29-12	1045	14410	Mon	691/00 Out	USB	(AB/Lac)
E11	29-12	1300	4909	Mon	312/00 Out	USB	(AB/Lac)
E11	29-12	1900	6849	Mon	641/00 Out	USB	(AB)
E11	30-12	0505	12153	Tue	333/00 Out	USB	(TM)
E11	30-12	0645	12385	Tue	514/00 Out	USB	(AB)
E11	30-12	0700	6804	Tue	576/00 Out	USB	(AB)
E11	30-12	0745	23031	Tue	221/00 Out	USB	(AB)
E11	30-12	0820	14611	Tue	133/00 Out	USB	(AB)
E11	30-12	0845	17378	Tue	157/00 Out	USB	(AB)
E11	30-12	1000	9079	Tue	300/00 Out	USB	(AB)
E11	30-12	1205	11559	Tue	463/00 Out	USB	(AB)
E11	30-12	1430	13363	Tue	918/00 Out	USB	(AB)
E11	30-12	1605	5432	Tue	236/00 Out	USB	(AB)
E11	30-12	1900	6849	Tue	641/00 Out	USB	(Lac)
E11	31-12	0315	8102	Wed	253/00 Out	USB	(TM)
E11	31-12	0600	20286	Wed	941/00 Out	USB	(AB-POL)
E11	31-12	0715	20167	Wed	751/00 Out	USB	(AB-POL)
E11	31-12	0745	17378	Wed	347/00 Out	USB	(AB/Lac)
E11	31-12	0820	14611	Wed	130/00 Out	USB	(AB/Lac)
E11	31-12	0845	12067	Wed	719/00 Out	USB	(AB/Lac)
E11	31-12	0900	15915	Wed	533/00 Out	USB	(AB/Lac)
E11	31-12	0930	7469	Wed	270/00 Out	USB	(AB)
E11	31-12	1045	14410	Wed	691/00 Out	USB	(AB/Lac)
E11	31-12	1205	11559	Wed	466/00 Out	USB	(AB/Lac)
E11	31-12	1610	4505	Wed	392/00 Out	USB	(AB/Lac)
E11	31-12	1715	5082	Wed	976/00 Out	USB	(AB/Lac)
E11a	1-12	0315	8102	Mon	255/34 Attention 22057 09671 52004 ... 84081 14953 42364 Attention (msg rptd) Out	USB	(AB)
E11a	1-12	0600	20286	Mon	150/30 Attention 44 11 55 77 99 Attention 4 1 5 7 9 Out	USB	(AB)
E11a	1-12	0645	14972	Mon	416/32 Attention 75734 06372 96312 ... 52908 98924 26710 Attention (msg rptd) Out	USB	(AB)
E11a	1-12	0715	20167	Mon	754/39 Attention 34055 98193 47313 ... 55260 73183 34395 Attention (msg rptd) Out	USB	(AB)
E11a	1-12	0745	10213	Mon	262/37 Attention 29055 54857 82337 ... 51424 75853 31145 Attention (msg rptd) Out	USB	(AB)
E11a	1-12	0830	23353	Mon	150/30 Attention 6 Out 6 Out Attention Out 22 Attention 6 Out Attention 2 out	USB	(AB/Lac)
E11a	1-12	0845	12067	Mon	719/39 Attention 43010 53048 82818 ... 44117 43911 59008 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	1-12	0900	15915	Mon	535/31 Attention 16414 99221 81794 ... 44083 88578 37205 Attention (msg rptd) Out	USB	(AB/Lac)
E11a	1-12	1045	14410	Mon	150/30 Attention 00 99 66 44 11 Attention Attention 77 Attention 0 9 6 4 1 Attention 7 Out	USB	(AB/Lac)
E11a	13-12	1610	4505	Sat	394/36 Attention 38951 69877 95049 ... 48521 14648 12765 Attention (msg rptd) Out	USB	(AB)
E11a	16-12	0745	23031	Tue	224/37 Attention 06769 53391 38387 ... 17185 82089 35058 Attention (msg rptd) Out	USB	(AB)
E11a	17-12	0930	7469	Wed	270/35 Attention 66071 68372 12009 ... 32117 32821 57575 Attention (msg rptd) Out	USB	(AB)

E11a	18-12	0745	23031	Thu	224/37 Attention 06769 53391 38387 ... 17185 82089 35058 Attention (msg rptd) Out	USB	(AB)
E11a	18-12	0930	7469	Thu	270/35 Attention 66071 68372 12009 ... 32117 32821 57575 Attention (msg rptd) Out	USB	(AB)
EGY	12-12	1435	11171.7	Fri	MFA Cairo clg OOVp: Egyptian embassy Islamabad	SITOR-A 100/170	(AB)
EGY	23-12	1719	11406.7	Tue	MFA Cairo. Long message to RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	24-12	1703	13441.7	Wed	MFA Cairo clg RCVB: Egyptian embassy Washington	SITOR-A 100/170	(AB)
EGY	31-12	1549	13801.7	Wed	MFA Cairo clg QQTX: Egyptian embassy Prague	SITOR-A 100/170	(AB)
EGY	31-12	1550	13800	Wed	99903: MFA Cairo wkg 22201: Egyptian embassy Prague	CODAN	(AB)
F01	26-8	1145	6957	Tue	11100 69992 95184 26001 02019	FSK 200/500	(PY)
F01	26-8	1155	9425	Tue	11100 69992 95184 26001 02019	FSK 200/500	(PY)
F01	26-8	1205	11611	Tue	11100 69992 75386 26002 02019	FSK 200/500	(PY)
F01	26-8	1330	5089	Tue	11100 69992 74365 26003 02025	FSK 200/500	(PY)
F01	26-8	1340	7337	Tue	11100 69992 74365 26003 02025	FSK 200/500	(PY)
F01	26-8	1350	9481	Tue	11100 69992 74365 26003 02025	FSK 200/500	(PY)
F01	1-12	1015	12164	Mon	Message 96	FSK 200/500	(AB)
F01	1-12	1025	10336	Mon	Message 96	FSK 200/500	(AB)
F01	1-12	1035	8016	Mon	Message 96	FSK 200/500	(AB)
F01	2-12	1015	12164	Tue	Messages 97 and 98	FSK 200/500	(AB)
F01	2-12	1025	10336	Tue	Messages 97 and 98	FSK 200/500	(AB)
F01	2-12	1035	8016	Tue	Messages 97 and 98	FSK 200/500	(AB)
F01	3-12	1015	12164	Wed	No transmission	FSK 200/500	(AB)
F01	3-12	1025	10336	Wed	No transmission	FSK 200/500	(AB)
F01	3-12	1035	8016	Wed	No transmission	FSK 200/500	(AB)
F01	4-12	1015	12164	Thu	No transmission	FSK 200/500	(AB)
F01	4-12	1025	10336	Thu	No transmission	FSK 200/500	(AB)
F01	4-12	1035	8016	Thu	No transmission	FSK 200/500	(AB)
F01	5-12	1015	12164	Fri	No transmission	FSK 200/500	(AB)
F01	5-12	1025	10336	Fri	No transmission	FSK 200/500	(AB)
F01	5-12	1035	8016	Fri	No transmission	FSK 200/500	(AB)
F01	8-12	0910	5913	Mon	Message 64. Switched to 100Bd at the end of the txm, sending 464646 464646 for a while then only blocks 1,2 and 3. Interruptions in modulation and signal	FSK 200/500	(PY)
F01	8-12	0920	7992	Mon	Message 64. Interruptions in modulation and signal	FSK 200/500	(PY)
F01	8-12	0930	10687	Mon	Message 64. Wrong 100Bd rate	FSK 100/500	(PY)
F01	8-12	1015	12164	Mon	Message 99	FSK 200/500	(AB/HFD)
F01	8-12	1025	10336	Mon	Message 99	FSK 200/500	(AB/HFD)
F01	8-12	1035	8016	Mon	Message 99	FSK 200/500	(AB/HFD)
F01	9-12	0830	5089	Tue	Message 66. Interruptions in modulation and signal. Wrong 100Bd rate	FSK 100/500	(PY)
F01	9-12	0840	7337	Tue	Message 66. Interruptions in modulation and signal	FSK 200/500	(PY)
F01	9-12	0850	9481	Tue	Message 66. Interruptions in modulation and signal	FSK 200/500	(PY)
F01	9-12	1015	12164	Tue	Messages 01 and 02	FSK 200/500	(AB)
F01	9-12	1025	10336	Tue	Messages 01 and 02	FSK 200/500	(AB)
F01	9-12	1035	8016	Tue	Messages 01 and 02	FSK 200/500	(AB)
F01	9-12	1200	5913	Tue	Message 67	FSK 200/500	(PY)

F01	9-12	1210	7992	Tue	Message 67. Interruptions in modulation, wrong 100Bd rate	FSK 100/500	(PY)
F01	9-12	1220	10687	Tue	Message 67. Interruptions in modulation, wrong 100Bd rate	FSK 100/500	(PY)
F01	10-12	1015	12164	Wed	Message 03	FSK 200/500	(AB)
F01	10-12	1025	10336	Wed	Message 03	FSK 200/500	(AB)
F01	10-12	1035	8016	Wed	Message 03	FSK 200/500	(AB)
F01	11-12	1015	12164	Thu	Messages 04 and 05	FSK 200/500	(AB)
F01	11-12	1025	10336	Thu	Messages 04 and 05	FSK 200/500	(AB)
F01	11-12	1035	8016	Thu	Messages 04 and 05	FSK 200/500	(AB)
F01	11-12	1200	5089	Thu	Message 69. Wrong 100Bd rate, interruptions in modulation	FSK 100/500	(PY)
F01	11-12	1210	7337	Thu	Message 69. Wrong 100Bd rate, interruptions in modulation	FSK 100/500	(PY)
F01	11-12	1220	9481	Thu	Message 69. Wrong 100Bd rate, interruptions in modulation	FSK 100/500	(PY)
F01	12-12	1015	12164	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	12-12	1025	10336	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	12-12	1035	8016	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	14-12	0830	5913	Sun	Message 70. Interruptions in modulation	FSK 200/500	(PY)
F01	14-12	0840	7992	Sun	Message 70. Interruptions in modulation	FSK 200/500	(PY)
F01	14-12	0850	10687	Sun	Message 70. Interruptions in modulation	FSK 200/500	(PY)
F01	15-12	1015	12164	Mon	Message 06	FSK 200/500	(AB)
F01	15-12	1025	10336	Mon	Message 06	FSK 200/500	(AB)
F01	15-12	1035	8016	Mon	Message 06	FSK 200/500	(AB)
F01	16-12	1015	12164	Tue	Messages 07 and 08	FSK 200/500	(AB)
F01	16-12	1025	10336	Tue	Messages 07 and 08	FSK 200/500	(AB)
F01	16-12	1035	8016	Tue	Messages 07 and 08	FSK 200/500	(AB)
F01	17-12	1015	12164	Wed	Message 09	FSK 200/500	(AB)
F01	17-12	1025	10336	Wed	Message 09	FSK 200/500	(AB)
F01	17-12	1035	8016	Wed	Message 09	FSK 200/500	(AB)
F01	17-12	1310	5913	Wed	Messages 55 and 56	FSK 200/500	(PY)
F01	17-12	1320	7992	Wed	Messages 55 and 56	FSK 200/500	(PY)
F01	17-12	1330	10687	Wed	Messages 55 and 56	FSK 200/500	(PY)
F01	18-12	0900	5913	Thu	11100 50992 15948 18003 02019	FSK 200/500	(PY)
F01	18-12	0910	7992	Thu	11100 50992 15948 18003 02019	FSK 200/500	(PY)
F01	18-12	0920	10687	Thu	11100 50992 15948 18003 02019	FSK 200/500	(PY)
F01	18-12	1015	12164	Thu	Message 10. Only one message was sent	FSK 200/500	(AB)
F01	18-12	1025	10336	Thu	Message 10. Only one message was sent	FSK 200/500	(AB)
F01	18-12	1035	8016	Thu	Message 10. Only one message was sent	FSK 200/500	(AB)
F01	19-12	1015	12164	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	19-12	1025	10336	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	19-12	1035	8016	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	22-12	1015	12164	Mon	Message 12	FSK 200/500	(AB)
F01	22-12	1025	10336	Mon	Message 12	FSK 200/500	(AB)
F01	22-12	1035	8016	Mon	Message 12	FSK 200/500	(AB)
F01	23-12	1015	12164	Tue	Messages 13 and 14	FSK 200/500	(AB)

F01	23-12	1025	10336	Tue	Messages 13 and 14	FSK 200/500	(AB)
F01	23-12	1035	8016	Tue	Messages 13 and 14	FSK 200/500	(AB)
F01	24-12	1015	12164	Wed	Message 15	FSK 200/500	(AB)
F01	24-12	1025	10336	Wed	Message 15	FSK 200/500	(AB)
F01	24-12	1035	8016	Wed	Message 15	FSK 200/500	(AB)
F01	25-12	1015	12164	Thu	Messages 16 and 17	FSK 200/500	(AB)
F01	25-12	1025	10336	Thu	Messages 16 and 17	FSK 200/500	(AB)
F01	25-12	1035	8016	Thu	Messages 16 and 17	FSK 200/500	(AB)
F01	26-12	1015	12164	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	26-12	1025	10336	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	26-12	1035	8016	Fri	00000 +++++ +++++	FSK 200/500	(AB)
F01	29-12	1015	12164	Mon	Message 13	FSK 200/500	(AB)
F01	29-12	1025	10336	Mon	Message 13	FSK 200/500	(AB)
F01	29-12	1035	8016	Mon	Message 13	FSK 200/500	(AB)
F01	30-12	1015	12164	Tue	Messages 19 and 20	FSK 200/500	(AB/TJ)
F01	30-12	1025	10336	Tue	Messages 19 and 20	FSK 200/500	(AB/TJ)
F01	30-12	1035	8016	Tue	Messages 19 and 20	FSK 200/500	(AB/TJ)
F01	31-12	1015	12164	Wed	Message 21	FSK 200/500	(AB)
F01	31-12	1025	10336	Wed	Message 21	FSK 200/500	(AB)
F01	31-12	1035	8016	Wed	Message 21	FSK 200/500	(AB)
F02	8-12	0853	12193	Mon	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	9-12	0628	11568	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	9-12	0749	14983	Tue	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	9-12	0800	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	16-12	0748	14983	Tue	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	16-12	0800	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	18-12	1023	16232	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	18-12	1026	16232	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	18-12	1035	16232	Thu	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	23-12	0800	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	23-12	0810	13883	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F02	30-12	0741	14983	Tue	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	30-12	0748	14983	Tue	Russian domestic net. Test	MFSK-4 150Bd/4000Hz	(AB)
F02	30-12	0800	14983	Tue	Russian domestic net	MFSK-4 150Bd/4000Hz	(AB)
F03j	1-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-12	1030	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	1-12	1035	14398	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	3-12	0615	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-12	0620	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	3-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0615	12857	Thu	No transmission	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0620	12857	Thu	No transmission	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0915	5946	Thu	No transmission	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	4-12	0920	5946	Thu	No transmission	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	0615	18978	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	0620	18978	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	8-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-12	0615	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-12	0620	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	10-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	11-12	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-12	0700	8196	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-12	0705	8196	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-12	0810	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	12-12	0815	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-12	0615	18978	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	15-12	0620	18978	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	15-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	15-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	17-12	0615	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-12	0620	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	17-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	17-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	17-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0700	8196	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0705	8196	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	18-12	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-12	0700	8196	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-12	0705	8196	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-12	0810	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	19-12	0815	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-12	0615	18978	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	22-12	0620	18978	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	22-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	22-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-12	0615	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	23-12	0620	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-12	0615	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-12	0620	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-12	0950	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	24-12	0955	4828	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	24-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	24-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-12	0615	8800	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-12	0620	8800	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-12	0700	8196	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-12	0705	8196	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-12	0915	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	25-12	0920	5946	Thu	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-12	0700	8196	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-12	0705	8196	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)

F03j	26-12	0810	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	26-12	0815	26472	Fri	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-12	0615	18978	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	29-12	0620	18978	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB-POL)
F03j	29-12	0810	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-12	0815	26472	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-12	0950	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-12	0955	4828	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-12	1010	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	29-12	1015	12089	Mon	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-12	0615	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	30-12	0620	8800	Tue	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-12	0615	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-12	0620	18978	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-12	0915	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-12	0920	5946	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-12	1010	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03j	31-12	1015	12089	Wed	Polish intel.	FSK-4 100Bd/400Hz/448bp	(AB)
F03l	1-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	1-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	1-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	1-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	2-12	0810	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	2-12	0815	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	2-12	0945	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	2-12	0950	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	3-12	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	3-12	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03l	4-12	0735	8800	Thu	No transmission	QPSK 100Bd/464bp	(AB)
F03l	4-12	0740	8800	Thu	No transmission	QPSK 100Bd/464bp	(AB)
F03l	4-12	0835	17120	Thu	No transmission	QPSK 100Bd/464bp	(AB)
F03l	4-12	0840	17120	Thu	No transmission	QPSK 100Bd/464bp	(AB)
F03l	5-12	0930	6304	Fri	Test tone. No transmission	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	5-12	0935	6304	Fri	No transmission	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	5-12	0945	6480	Fri	No transmission	QPSK 100Bd/464bp	(AB)
F03l	5-12	0950	6480	Fri	No transmission	QPSK 100Bd/464bp	(AB)
F03l	8-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	8-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	8-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	8-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	8-12	1030	17378	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03l	8-12	1035	17378	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	9-12	0810	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	9-12	0815	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	9-12	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	9-12	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	9-12	0945	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	9-12	0950	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	10-12	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	10-12	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	11-12	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	11-12	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	11-12	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	11-12	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	12-12	0945	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	12-12	0950	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	15-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-12	1030	17378	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	15-12	1035	17378	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	16-12	0810	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	16-12	0815	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	16-12	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	16-12	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	16-12	0945	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	16-12	0950	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-12	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-12	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-12	1030	17378	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	17-12	1035	17378	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-12	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-12	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-12	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	18-12	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	19-12	0945	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	19-12	0950	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	22-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)

F03I	22-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-12	1030	17378	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	22-12	1035	17378	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	23-12	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	23-12	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	23-12	0945	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	23-12	0950	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	24-12	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	24-12	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	24-12	1030	17378	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	24-12	1035	17378	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-12	0735	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-12	0740	8800	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-12	0835	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	25-12	0840	17120	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-12	0930	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0935	6304	Fri	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	26-12	0945	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	26-12	0950	6480	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	29-12	0630	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-12	0635	13424	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-12	0930	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-12	0935	6304	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-12	1030	17378	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	29-12	1035	17378	Mon	Polish intel.	FSK-2 100Bd/200Hz/448bp	(AB)
F03I	30-12	0835	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	30-12	0840	17120	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	30-12	0945	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	30-12	0950	6480	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	31-12	0630	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	31-12	0635	13424	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	31-12	1030	17378	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F03I	31-12	1035	17378	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
F06	1-12	0500	7379	Mon	11166 70059 56897 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-12	0510	6774	Mon	11166 70059 56897 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-12	0520	5463	Mon	11166 70059 56897 01001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	1-12	0800	12184	Mon	11100 00000 96325 28020 02339	FSK 200/1000	(AB)
F06	1-12	0810	10169	Mon	11100 00000 96325 28020 02339	FSK 200/1000	(AB)
F06	1-12	0820	7739	Mon	11100 00000 96325 28020 02339	FSK 200/1000	(AB)
F06	2-12	0030	9489	Tue	11166 60070 95173 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-12	0040	7615	Tue	11166 60070 95173 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

F06	2-12	0050	6983	Tue	11166 60070 95173 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-12	0700	11046	Tue	11166 70202 35681 01004 01179 and 11166 70202 86374 01005 02239	FSK 200/1000	(AB)
F06	2-12	0710	9065	Tue	11166 70202 35681 01004 01179 and 11166 70202 86374 01005 02239	FSK 200/1000	(AB)
F06	2-12	0720	7479	Tue	11166 70202 35681 01004 01179 and 11166 70202 86374 01005 02239	FSK 200/1000	(AB)
F06	2-12	0800	12184	Tue	11100 00000 96325 28020 02339	FSK 200/1000	(AB)
F06	2-12	0810	10169	Tue	11100 00000 96325 28020 02339	FSK 200/1000	(AB)
F06	2-12	0820	7739	Tue	11100 00000 96325 28020 02339	FSK 200/1000	(AB)
F06	2-12	1200	9178	Tue	11166 70202 35681 01004 01179 and 11166 70202 86374 01005 02239	FSK 200/1000	(AB)
F06	2-12	1210	7624	Tue	11166 70202 35681 01004 01179 and 11166 70202 86374 01005 02239	FSK 200/1000	(AB)
F06	2-12	1220	5789	Tue	11166 70202 35681 01004 01179 and 11166 70202 86374 01005 02239	FSK 200/1000	(AB)
F06	2-12	1650	12125	Tue	11166 10053 35782 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-12	1700	10575	Tue	11166 10053 35782 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	2-12	1710	8131	Tue	11166 10053 35782 02001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	3-12	0540	6995	Wed	11100 00000 18473 02069 00029 10582 00000	FSK 200/1000	(PY)
F06	3-12	0555	9051	Wed	11100 00000 18473 02069 00029 10582 00000	FSK 200/1000	(PY)
F06	3-12	0610	11004	Wed	11100 00000 18473 02069 00029 10582 00000	FSK 200/1000	(PY)
F06	3-12	0820	11014	Wed	11100 00000 45769 02010 10029	FSK 200/1000	(PY)
F06	3-12	0830	15498	Wed	11100 00000 45769 02010 10029	FSK 200/1000	(PY)
F06	3-12	0840	17419	Wed	11100 00000 45769 02010 10029	FSK 200/1000	(PY)
F06	3-12	2100	5983	Wed	11100 00000 59684 02070 00049 53842 12048 39768 00000	FSK 200/1000	(PY)
F06	3-12	2115	4499	Wed	11100 00000 59684 02070 00049 53842 12048 39768 00000	FSK 200/1000	(PY)
F06	3-12	2130	3165	Wed	11100 00000 59684 02070 00049 53842 12048 39768 00000	FSK 200/1000	(PY)
F06	4-12	0540	6995	Thu	11100 00000 24851 03036 00039 57612 98641 00000	FSK 200/1000	(PY)
F06	4-12	0555	9051	Thu	11100 00000 24851 03036 00039 57612 98641 00000	FSK 200/1000	(PY)
F06	4-12	0610	11004	Thu	11100 00000 24851 03036 00039 57612 98641 00000	FSK 200/1000	(PY)
F06	4-12	0700	11046	Thu	No transmission	FSK 200/1000	(AB)
F06	4-12	0710	9065	Thu	No transmission	FSK 200/1000	(AB)
F06	4-12	0720	7479	Thu	No transmission	FSK 200/1000	(AB)
F06	4-12	0820	11014	Thu	Active, presumably msg #14	FSK 200/1000	(PY)
F06	4-12	0830	15498	Thu	Active, presumably msg #14	FSK 200/1000	(PY)
F06	4-12	0840	17419	Thu	Active, presumably msg #14	FSK 200/1000	(PY)
F06	4-12	1200	9178	Thu	No transmission	FSK 200/1000	(AB)
F06	4-12	1210	7624	Thu	No transmission	FSK 200/1000	(AB)
F06	4-12	1220	5789	Thu	No transmission	FSK 200/1000	(AB)
F06	4-12	1330	15946	Thu	11166 80214 23568 03056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-12	1340	12211	Thu	11166 80214 23568 03056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	4-12	1350	10286	Thu	11166 80214 23568 03056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	5-12	0540	6995	Fri	11100 00000 24851 04037 00049 25611 69547 25196 00000	FSK 200/1000	(PY)
F06	5-12	0555	9051	Fri	11100 00000 24851 04037 00049 25611 69547 25196 00000	FSK 200/1000	(PY)
F06	5-12	0610	11004	Fri	11100 00000 24851 04037 00049 25611 69547 25196 00000	FSK 200/1000	(PY)
F06	5-12	0700	11046	Fri	No transmission	FSK 200/1000	(AB)
F06	5-12	0710	9065	Fri	No transmission	FSK 200/1000	(AB)

F06	5-12	0720	7479	Fri	No transmission	FSK 200/1000	(AB)
F06	5-12	0820	11014	Fri	11100 00000 25149 04019 08029	FSK 200/1000	(PY)
F06	5-12	0830	15498	Fri	11100 00000 25149 04019 08029	FSK 200/1000	(PY)
F06	5-12	0840	17419	Fri	11100 00000 25149 04019 08029	FSK 200/1000	(PY)
F06	6-12	0745	5913	Sat	11100 00000 13467 06028 02559	FSK 200/1000	(PY)
F06	6-12	0755	7992	Sat	11100 00000 13467 06028 02559	FSK 200/1000	(PY)
F06	6-12	0805	10687	Sat	11100 00000 13467 06028 02559	FSK 200/1000	(PY)
F06	6-12	0900	6957	Sat	11100 00000 24679 06029 02529	FSK 200/1000	(PY)
F06	6-12	0910	9425	Sat	11100 00000 24679 06029 02529	FSK 200/1000	(PY)
F06	6-12	0920	11611	Sat	11100 00000 24679 06029 02529	FSK 200/1000	(PY)
F06	7-12	1530	12209	Sun	11166 10053 95184 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-12	1540	9363	Sun	11166 10053 95184 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	7-12	1550	8153	Sun	11166 10053 95184 07001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	8-12	0800	12184	Mon	11100 00000 40295 05021 02239	FSK 200/1000	(AB)
F06	8-12	0810	10169	Mon	11100 00000 40295 05021 02239	FSK 200/1000	(AB)
F06	8-12	0820	7739	Mon	11100 00000 40295 05021 02239	FSK 200/1000	(AB)
F06	9-12	0030	9489	Tue	11166 60070 13579 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-12	0040	7615	Tue	11166 60070 13579 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-12	0050	6983	Tue	11166 60070 13579 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-12	0700	11046	Tue	11166 70202 62147 08007 01319 and 11166 70202 73258 08008 02139	FSK 200/1000	(AB)
F06	9-12	0710	9065	Tue	11166 70202 62147 08007 01319 and 11166 70202 73258 08008 02139	FSK 200/1000	(AB)
F06	9-12	0720	7479	Tue	11166 70202 62147 08007 01319 and 11166 70202 73258 08008 02139	FSK 200/1000	(AB)
F06	9-12	0800	12184	Tue	11100 00000 40295 05021 02239	FSK 200/1000	(AB)
F06	9-12	0810	10169	Tue	11100 00000 40295 05021 02239	FSK 200/1000	(AB)
F06	9-12	0820	7739	Tue	11100 00000 40295 05021 02239	FSK 200/1000	(AB)
F06	9-12	1100	13532	Tue	11100 00000 69541 08051 00049 65147 23978 95407 00000	FSK 200/1000	(AB/PY)
F06	9-12	1115	11123	Tue	11100 00000 69541 08051 00049 65147 23978 95407 00000	FSK 200/1000	(AB/PY)
F06	9-12	1130	9426	Tue	11100 00000 69541 08051 00049 65147 23978 95407 00000	FSK 200/1000	(AB/PY)
F06	9-12	1200	9178	Tue	11166 70202 62147 08007 01319 and 11166 70202 73258 08008 02139	FSK 200/1000	(AB)
F06	9-12	1210	7624	Tue	11166 70202 62147 08007 01319 and 11166 70202 73258 08008 02139	FSK 200/1000	(AB)
F06	9-12	1220	5789	Tue	11166 70202 62147 08007 01319 and 11166 70202 73258 08008 02139	FSK 200/1000	(AB)
F06	9-12	1600	11122	Tue	11100 00000 69541 08051 00049 65147 23978 95407 00000	FSK 200/1000	(AB/PY)
F06	9-12	1615	9064	Tue	11100 00000 69541 08051 00049 65147 23978 95407 00000	FSK 200/1000	(AB/PY)
F06	9-12	1630	6923	Tue	11100 00000 69541 08051 00049 65147 23978 95407 00000	FSK 200/1000	(AB/PY)
F06	9-12	1650	12125	Tue	11166 10053 12457 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-12	1700	10575	Tue	11166 10053 12457 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	9-12	1710	8131	Tue	11166 10053 12457 09001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-12	0700	11046	Thu	11166 70202 85476 10010 01519 and 11166 70202 75234 10011 02099	FSK 200/1000	(AB)
F06	11-12	0710	9065	Thu	11166 70202 85476 10010 01519 and 11166 70202 75234 10011 02099	FSK 200/1000	(AB)
F06	11-12	0720	7479	Thu	11166 70202 85476 10010 01519 and 11166 70202 75234 10011 02099	FSK 200/1000	(AB)
F06	11-12	0745	5913	Thu	11100 00000 13579 11032 03029	FSK 200/1000	(PY)
F06	11-12	0755	7992	Thu	11100 00000 13579 11032 03029	FSK 200/1000	(PY)

F06	11-12	0805	10687	Thu	11100 00000 13579 11032 03029	FSK 200/1000	(PY)
F06	11-12	0920	5089	Thu	No transmission	FSK 200/1000	(PY)
F06	11-12	0933	7337	Thu	11100 00000 89134 11030 02529 and 11100 00000 64823 11031 02629. Late start	FSK 200/1000	(PY)
F06	11-12	0940	9481	Thu	11100 00000 89134 11030 02529 and 11100 00000 64823 11031 02629	FSK 200/1000	(PY)
F06	11-12	1200	9178	Thu	11166 70202 85476 10010 01519 and 11166 70202 75234 10011 02099	FSK 200/1000	(AB)
F06	11-12	1210	7624	Thu	11166 70202 85476 10010 01519 and 11166 70202 75234 10011 02099	FSK 200/1000	(AB)
F06	11-12	1220	5789	Thu	11166 70202 85476 10010 01519 and 11166 70202 75234 10011 02099	FSK 200/1000	(AB)
F06	11-12	1330	15946	Thu	11166 80214 91478 11014 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-12	1340	12211	Thu	11166 80214 91478 11014 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-12	1350	10286	Thu	11166 80214 91478 11014 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	11-12	1520	10687	Thu	11100 00000 13579 11032 03029	FSK 200/1000	(AB)
F06	12-12	0700	11046	Fri	11166 70202 95348 12058 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-12	0710	9065	Fri	11166 70202 95348 12058 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	12-12	0720	7479	Fri	11166 70202 95348 12058 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14-12	1530	12209	Sun	11166 10053 15973 14001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14-12	1540	9363	Sun	11166 10053 15973 14001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	14-12	1550	8153	Sun	11166 10053 15973 14001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	15-12	0500	7379	Mon	11166 70059 13579 15001 00049 00000 00000 00000 00000	USB	(AB)
F06	15-12	0510	6774	Mon	11166 70059 13579 15001 00049 00000 00000 00000 00000	USB	(AB)
F06	15-12	0520	5463	Mon	11166 70059 13579 15001 00049 00000 00000 00000 00000	USB	(AB)
F06	15-12	0800	12184	Mon	11100 00000 23481 12022 01959	FSK 200/1000	(AB)
F06	15-12	0810	10169	Mon	11100 00000 23481 12022 01959	FSK 200/1000	(AB)
F06	15-12	0820	7739	Mon	11100 00000 23481 12022 01959	FSK 200/1000	(AB)
F06	15-12	0830	5089	Mon	11100 00000 13579 15034 04529	FSK 200/1000	(PY)
F06	15-12	0840	7337	Mon	11100 00000 13579 15034 04529	FSK 200/1000	(PY)
F06	15-12	1310	5913	Mon	11100 00000 14623 15001 00029 61592 00000	FSK 200/1000	(PY)
F06	15-12	1320	7992	Mon	11100 00000 14623 15001 00029 61592 00000	FSK 200/1000	(PY)
F06	15-12	1330	10687	Mon	11100 00000 14623 15001 00029 61592 00000	FSK 200/1000	(PY)
F06	16-12	0030	9489	Tue	Null message. Too weak to decode	FSK 200/1000	(AB)
F06	16-12	0040	7615	Tue	Null message. Too weak to decode	FSK 200/1000	(AB)
F06	16-12	0050	6983	Tue	Null message. Too weak to decode	FSK 200/1000	(AB)
F06	16-12	0605	7337	Tue	11100 00000 24863 16037 03029 Late start mid-message	FSK 200/1000	(PY)
F06	16-12	0615	9481	Tue	11100 00000 24863 16037 03029 Interruptions in modulation	FSK 200/1000	(PY)
F06	16-12	0700	11046	Tue	11166 70202 25846 15013 02039 and 11166 70202 91463 15014 01359	FSK 200/1000	(AB)
F06	16-12	0710	9065	Tue	11166 70202 25846 15013 02039 and 11166 70202 91463 15014 01359	FSK 200/1000	(AB)
F06	16-12	0720	7479	Tue	11166 70202 25846 15013 02039 and 11166 70202 91463 15014 01359	FSK 200/1000	(AB)
F06	16-12	0800	12184	Tue	11100 00000 23481 12022 01959	FSK 200/1000	(AB)
F06	16-12	0810	10169	Tue	11100 00000 23481 12022 01959	FSK 200/1000	(AB)
F06	16-12	0815	5913	Tue	11100 79993 84321 16001 02379	FSK 200/1000	(PY)
F06	16-12	0820	7739	Tue	11100 00000 23481 12022 01959	FSK 200/1000	(AB)
F06	16-12	0825	7992	Tue	11100 79993 84321 16001 02379	FSK 200/1000	(PY)
F06	16-12	0835	10687	Tue	11100 79993 84321 16001 02379	FSK 200/1000	(PY)

F06	16-12	1025	5913	Tue	11100 79993 54312 16001 00049 00000 00000 00000 00000. Mangled looping	FSK 200/1000	(PY)
F06	16-12	1035	7992	Tue	11100 79993 54312 16001 00049 00000 00000 00000 00000. Mangled looping	FSK 200/1000	(PY)
F06	16-12	1045	10687	Tue	11100 79993 54312 16001 00049 00000 00000 00000 00000. Mangled looping	FSK 200/1000	(PY)
F06	16-12	1200	9178	Tue	11166 70202 25846 15013 02039 and 11166 70202 91463 15014 01359	FSK 200/1000	(AB)
F06	16-12	1210	7624	Tue	11166 70202 25846 15013 02039 and 11166 70202 91463 15014 01359	FSK 200/1000	(AB)
F06	16-12	1220	5789	Tue	11166 70202 25846 15013 02039 and 11166 70202 91463 15014 01359	FSK 200/1000	(AB)
F06	16-12	1555	5089	Tue	11100 00000 24863 16037 03029 Cut off short mid-message	FSK 200/1000	(PY)
F06	16-12	1650	12125	Tue	11166 10053 95184 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-12	1700	10575	Tue	11166 10053 95184 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-12	1710	8131	Tue	11166 10053 95184 16001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	16-12	1855	5913	Tue	11100 00000 17285 16038 02529	FSK 200/1000	(PY)
F06	16-12	1905	7992	Tue	11100 00000 17285 16038 02529	FSK 200/1000	(PY)
F06	16-12	1915	10687	Tue	11100 00000 17285 16038 02529	FSK 200/1000	(PY)
F06	17-12	1100	13532	Wed	11100 00000 39541 16069 00049 65247 13978 85407 00000	FSK 200/1000	(AB/PY)
F06	17-12	1115	11123	Wed	11100 00000 39541 16069 00049 65247 13978 85407 00000	FSK 200/1000	(AB/PY)
F06	17-12	1130	9426	Wed	11100 00000 39541 16069 00049 65247 13978 85407 00000	FSK 200/1000	(AB/PY)
F06	17-12	1600	11122	Wed	11100 00000 39541 16069 00049 65247 13978 85407 00000	FSK 200/1000	(AB/PY)
F06	17-12	1615	9064	Wed	11100 00000 39541 16069 00049 65247 13978 85407 00000	FSK 200/1000	(AB/PY)
F06	17-12	1630	6923	Wed	11100 00000 39541 16069 00049 65247 13978 85407 00000	FSK 200/1000	(AB/PY)
F06	18-12	0700	11046	Thu	11166 70202 35147 17016 01979 and 11166 70202 15946 17017 01439	FSK 200/1000	(AB)
F06	18-12	0710	9065	Thu	11166 70202 35147 17016 01979 and 11166 70202 15946 17017 01439	FSK 200/1000	(AB)
F06	18-12	0720	7479	Thu	11166 70202 35147 17016 01979 and 11166 70202 15946 17017 01439	FSK 200/1000	(AB)
F06	18-12	1200	9178	Thu	11166 70202 35147 17016 01979 and 11166 70202 15946 17017 01439	FSK 200/1000	(AB)
F06	18-12	1210	7624	Thu	11166 70202 35147 17016 01979 and 11166 70202 15946 17017 01439	FSK 200/1000	(AB)
F06	18-12	1220	5789	Thu	11166 70202 35147 17016 01979 and 11166 70202 15946 17017 01439	FSK 200/1000	(AB)
F06	18-12	1330	15946	Thu	11166 80214 48561 18037 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-12	1340	12211	Thu	11166 80214 48561 18037 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-12	1340	5913	Thu	11100 00000 15948 18001 00049 00000 00000 00000 00000 mangled looping, FSK inversions, 11m TX	FSK 200/1000	(PY)
F06	18-12	1350	10286	Thu	11166 80214 48561 18037 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	18-12	1355	7992	Thu	11100 00000 15948 18001 00049 00000 00000 00000 00000 mangled looping, FSK inversions, 11m TX	FSK 200/1000	(PY)
F06	18-12	1410	10687	Thu	11100 00000 15948 18001 00049 00000 00000 00000 00000 mangled looping, FSK inversions, 11m TX	FSK 200/1000	(PY)
F06	19-12	0700	11046	Fri	11166 70202 59487 19056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-12	0710	9065	Fri	11166 70202 59487 19056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	19-12	0720	7479	Fri	11166 70202 59487 19056 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	20-12	1240	6957	Sat	11100 00000 14528 20039 02829	FSK 200/1000	(PY)
F06	20-12	1250	9425	Sat	11100 00000 14528 20039 02829	FSK 200/1000	(PY)
F06	20-12	1300	11611	Sat	11100 00000 14528 20039 02829	FSK 200/1000	(PY)
F06	21-12	1530	12209	Sun	11166 10053 19673 21078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	21-12	1540	9363	Sun	11166 10053 19673 21078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)

F06	21-12	1550	8153	Sun	11166 10053 19673 21078 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	22-12	1305	9300	Mon	Mangled looping, cut off mid-message after 2 minutes. Message header 11100 79993 17285 22038 02529	FSK 200/1000	(PY)
F06	22-12	1315	9300	Mon	Mangled looping. Message header 11100 79993 17285 22038 02529	FSK 200/1000	(PY)
F06	22-12	1402	9300	Mon	Cut off mid-message after 2m33s, restarted 10s later, then cut off mid-message at the end. Message header 11100 00000 93621 22040 08039	FSK 200/1000	(PY)
F06	22-12	1605	9300	Mon	Mangled looping. Message header 11100 00000 25684 24008 00129	FSK 200/1000	(PY)
F06	23-12	0030	9489	Tue	Null message. Too weak to decode	FSK 200/1000	(AB)
F06	23-12	0040	7615	Tue	Null message. Too weak to decode	FSK 200/1000	(AB)
F06	23-12	0050	6983	Tue	Null message. Too weak to decode	FSK 200/1000	(AB)
F06	23-12	0540	9300	Tue	11166 00000 25896 23004 00049 00000 00000 00000 00000. Mangled looping, 11m20s TX (very long for a null)	FSK 200/1000	(PY)
F06	23-12	1650	12125	Tue	11166 10053 13782 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-12	1700	10575	Tue	11166 10053 13782 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	23-12	1710	8131	Tue	11166 10053 13782 23001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	24-12	1100	13532	Wed	11100 00000 95482 24029 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-12	1110	11123	Wed	11100 00000 95482 24029 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	24-12	1120	9426	Wed	11100 00000 95482 24029 00049 00000 00000 00000 00000	FSK 200/1000	(AB/PY)
F06	25-12	1330	15946	Thu	11166 80214 12568 24006 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-12	1340	12211	Thu	11166 80214 12568 24006 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	25-12	1350	10286	Thu	11166 80214 12568 24006 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-12	1530	12209	Sun	11166 10053 57432 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-12	1540	9363	Sun	11166 10053 57432 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	28-12	1550	8153	Sun	11166 10053 57432 28001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	29-12	0840	6957	Mon	11100 00000 13548 29047 03029	FSK 200/1000	(PY)
F06	29-12	0850	9425	Mon	11100 00000 13548 29047 03029	FSK 200/1000	(PY)
F06	29-12	0900	11611	Mon	11100 00000 13548 29047 03029	FSK 200/1000	(PY)
F06	30-12	0030	9489	Tue	11166 60070 95724 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-12	0040	7615	Tue	11166 60070 95724 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-12	0050	6983	Tue	11166 60070 95724 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-12	1650	12125	Tue	11166 10053 74895 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-12	1700	10575	Tue	11166 10053 74895 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06	30-12	1710	8131	Tue	11166 10053 74895 30001 00049 00000 00000 00000 00000	FSK 200/1000	(AB)
F06a	1-12	0700	11046	Mon	File 44403 (binary contents)	FSK 200/1000	(AB)
F06a	1-12	0715	9065	Mon	File 44403 (binary contents)	FSK 200/1000	(AB)
F06a	1-12	0730	7479	Mon	File 44403 (binary contents)	FSK 200/1000	(AB)
F06a	1-12	1200	9178	Mon	File 44403 (binary contents)	FSK 200/1000	(AB)
F06a	1-12	1215	7624	Mon	File 44403 (binary contents)	FSK 200/1000	(AB)
F06a	1-12	1230	5789	Mon	File 44403 (binary contents)	FSK 200/1000	(AB)
F06a	2-12	1100	13532	Tue	File 44457 (1551 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	2-12	1115	11123	Tue	File 44457 (1551 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	2-12	1130	9426	Tue	File 44457 (1551 bytes, binary contents, empty text header)	FSK 200/1000	(PY)

F06a	2-12	1600	11122	Tue	File 44457 (1551 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	2-12	1615	9064	Tue	File 44457 (1551 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	2-12	1630	6923	Tue	File 44457 (1551 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	3-12	0600	14369	Wed	File 44171 (binary contents)	FSK 200/1000	(AB)
F06a	3-12	0615	16337	Wed	File 44171 (binary contents)	FSK 200/1000	(AB)
F06a	3-12	0630	19633	Wed	File 44171 (binary contents)	FSK 200/1000	(AB)
F06a	3-12	0700	11046	Wed	No transmission	FSK 200/1000	(AB)
F06a	3-12	0700	9061	Wed	File 44409 (500 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	3-12	0715	9065	Wed	No transmission	FSK 200/1000	(AB)
F06a	3-12	0715	13499	Wed	File 44409 (500 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	3-12	0730	7479	Wed	No transmission	FSK 200/1000	(AB)
F06a	3-12	0730	14984	Wed	File 44409 (500 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	3-12	0740	22954	Wed	File 44401	FSK 200/1000	(PY)
F06a	3-12	0755	20064	Wed	File 44401	FSK 200/1000	(PY)
F06a	3-12	0810	18533	Wed	File 44401	FSK 200/1000	(PY)
F06a	3-12	0900	22888	Wed	Interruptions in signal, apparently repeat of 0740/0755/0810z	FSK 200/1000	(PY)
F06a	3-12	0915	19477	Wed	Interruptions in signal, apparently repeat of 0740/0755/0810z	FSK 200/1000	(PY)
F06a	3-12	0930	18049	Wed	Interruptions in signal, apparently repeat of 0740/0755/0810z	FSK 200/1000	(PY)
F06a	3-12	0940	17429	Wed	Files 44411 (2400 bytes) binary contents, empty text header and 44412 (100 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	3-12	0955	14980	Wed	Files 44411 (2400 bytes) binary contents, empty text header and 44412 (100 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	3-12	1010	9985	Wed	Files 44411 (2400 bytes) binary contents, empty text header and 44412 (100 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	3-12	1100	13532	Wed	File 44458 (1891 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	3-12	1115	11123	Wed	File 44458 (1891 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	3-12	1130	9426	Wed	File 44458 (1891 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	3-12	1200	9178	Wed	No transmission	FSK 200/1000	(AB)
F06a	3-12	1215	7624	Wed	No transmission	FSK 200/1000	(AB)
F06a	3-12	1220	13375	Wed	File 44409 (500 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	3-12	1230	5789	Wed	No transmission	FSK 200/1000	(AB)
F06a	3-12	1235	11013	Wed	File 44409 (500 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	3-12	1250	9071	Wed	File 44409 (500 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	3-12	1600	11122	Wed	File 44458 (1891 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	3-12	1615	9064	Wed	File 44458 (1891 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	3-12	1630	6923	Wed	File 44458 (1891 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	4-12	0600	14369	Thu	File 44171 (binary contents)	FSK 200/1000	(AB)
F06a	4-12	0615	16337	Thu	File 44171 (binary contents)	FSK 200/1000	(AB)
F06a	4-12	0630	19633	Thu	File 44171 (binary contents)	FSK 200/1000	(AB)
F06a	4-12	0700	9061	Thu	File 44413 (700 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	4-12	0715	13499	Thu	File 44413 (700 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	4-12	0730	14984	Thu	File 44413 (700 bytes) binary contents, empty text header	FSK 200/1000	(PY)

F06a	4-12	0740	22954	Thu	Active	FSK 200/1000	(PY)
F06a	4-12	0755	20064	Thu	Active	FSK 200/1000	(PY)
F06a	4-12	0810	18533	Thu	Active	FSK 200/1000	(PY)
F06a	4-12	0900	22888	Thu	Active	FSK 200/1000	(PY)
F06a	4-12	0915	19477	Thu	Active	FSK 200/1000	(PY)
F06a	4-12	0930	18049	Thu	Active	FSK 200/1000	(PY)
F06a	4-12	0940	17429	Thu	Active, presumably files 44415 and 44416	FSK 200/1000	(PY)
F06a	4-12	0955	14980	Thu	Active, presumably files 44415 and 44416	FSK 200/1000	(PY)
F06a	4-12	1010	9985	Thu	Active, presumably files 44415 and 44416	FSK 200/1000	(PY)
F06a	4-12	1220	13375	Thu	File 44413 (700 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	4-12	1235	11013	Thu	File 44413 (700 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	4-12	1250	9071	Thu	File 44413 (700 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	4-12	2100	5983	Thu	File 44417 (700 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	4-12	2115	4499	Thu	File 44417 (700 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	4-12	2130	3165	Thu	File 44417 (700 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	5-12	0700	9061	Fri	File 44418 (1024 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	5-12	0715	13499	Fri	File 44418 (1024 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	5-12	0730	14984	Fri	File 44418 (1024 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	5-12	0740	22954	Fri	Too weak to decode	FSK 200/1000	(PY)
F06a	5-12	0755	20064	Fri	Too weak to decode	FSK 200/1000	(PY)
F06a	5-12	0810	18533	Fri	Too weak to decode	FSK 200/1000	(PY)
F06a	5-12	0900	22888	Fri	Too weak to decode	FSK 200/1000	(PY)
F06a	5-12	0915	19477	Fri	Too weak to decode	FSK 200/1000	(PY)
F06a	5-12	0930	18049	Fri	Too weak to decode	FSK 200/1000	(PY)
F06a	5-12	0940	17429	Fri	Files 44420 (2253 bytes) binary contents,empty text header and 44421 (307 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	5-12	0955	14980	Fri	Files 44420 (2253 bytes) binary contents,empty text header and 44421 (307 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	5-12	1010	9985	Fri	Files 44420 (2253 bytes) binary contents,empty text header and 44421 (307 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	5-12	1215	14541	Fri	Too weak to decode	FSK 200/1000	(PY)
F06a	5-12	1220	13375	Fri	No transmissions	FSK 200/1000	(PY)
F06a	5-12	1230	13363	Fri	Too weak to decode	FSK 200/1000	(PY)
F06a	5-12	1235	11013	Fri	No transmissions	FSK 200/1000	(PY)
F06a	5-12	1250	9071	Fri	No transmissions	FSK 200/1000	(PY)
F06a	5-12	2100	5983	Fri	File 44422 (1024 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	5-12	2115	4499	Fri	File 44422 (1024 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	5-12	2130	3165	Fri	File 44422 (1024 bytes) binary contents, empty text header	FSK 200/1000	(PY)
F06a	8-12	0700	11046	Mon	File 44406 (binary contents)	FSK 200/1000	(AB)
F06a	8-12	0715	9065	Mon	File 44406 (binary contents)	FSK 200/1000	(AB)
F06a	8-12	0730	7479	Mon	File 44406 (binary contents)	FSK 200/1000	(AB)
F06a	8-12	1200	9178	Mon	File 44406 (binary contents)	FSK 200/1000	(AB)

F06a	8-12	1215	7624	Mon	File 44406 (binary contents)	FSK 200/1000	(AB)
F06a	8-12	1230	5789	Mon	File 44406 (binary contents)	FSK 200/1000	(AB)
F06a	10-12	0600	14369	Wed	File 34472 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	10-12	0615	16337	Wed	File 34472 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	10-12	0630	19633	Wed	File 34472 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	10-12	0700	11046	Wed	File 44409 (binary contents)	FSK 200/1000	(AB)
F06a	10-12	0715	9065	Wed	File 44409 (binary contents)	FSK 200/1000	(AB)
F06a	10-12	0730	7479	Wed	File 44409 (binary contents)	FSK 200/1000	(AB)
F06a	10-12	1100	13532	Wed	File 44459 (binary contents)	FSK 200/1000	(AB/PY)
F06a	10-12	1115	11123	Wed	File 44459 (binary contents)	FSK 200/1000	(AB/PY)
F06a	10-12	1130	9426	Wed	File 44459 (binary contents)	FSK 200/1000	(AB/PY)
F06a	10-12	1200	9178	Wed	File 44409 (binary contents)	FSK 200/1000	(AB)
F06a	10-12	1215	7624	Wed	File 44409 (binary contents)	FSK 200/1000	(AB)
F06a	10-12	1230	5789	Wed	File 44409 (binary contents)	FSK 200/1000	(AB)
F06a	10-12	1600	11122	Wed	File 44459 (binary contents)	FSK 200/1000	(AB/PY)
F06a	10-12	1615	9064	Wed	File 44459 (binary contents)	FSK 200/1000	(AB/PY)
F06a	10-12	1630	6923	Wed	File 44459 (binary contents)	FSK 200/1000	(AB/PY)
F06a	11-12	0600	14369	Thu	File 34472 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	11-12	0615	16337	Thu	File 34472 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	11-12	0630	19633	Thu	File 34472 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	13-12	1615	18732	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	13-12	1630	16252	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	14-12	1600	18357	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	14-12	1615	17515	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	14-12	1630	15693	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	15-12	0630	13532	Mon	File 44490 (1942 bytes) empty text header	FSK 200/1000	(PY)
F06a	15-12	0645	11514	Mon	File 44490 (1942 bytes) empty text header	FSK 200/1000	(PY)
F06a	15-12	0700	11046	Mon	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	15-12	0700	6957	Mon	File 04433 (2218 bytes, binary contents)	FSK 200/1000	(PY)
F06a	15-12	0700	9426	Mon	File 44490 (1942 bytes) empty text header	FSK 200/1000	(PY)
F06a	15-12	0715	9065	Mon	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	15-12	0715	9425	Mon	File 04433 (2218 bytes, binary contents)	FSK 200/1000	(PY)
F06a	15-12	0730	7479	Mon	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	15-12	0730	11611	Mon	File 04433 (2218 bytes, binary contents)	FSK 200/1000	(PY)
F06a	15-12	0850	9481	Mon	File 04433 (2218 bytes, binary contents). The third TX of the 0830z cycle mistakenly repeated the previous cycle's F06a message.	FSK 200/1000	(PY)
F06a	15-12	1200	9178	Mon	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	15-12	1215	7624	Mon	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	15-12	1230	5789	Mon	File 44412 (binary contents)	FSK 200/1000	(AB)
F06a	15-12	1350	10687	Mon	File 04401 (200 bytes) empty text header	FSK 200/1000	(PY)
F06a	15-12	1405	7992	Mon	File 04401 (200 bytes) empty text header	FSK 200/1000	(PY)
F06a	15-12	1413	5913	Mon	+500Hz idle carrier for 3m, no F06	Carrier	(PY)

F06a	15-12	1425	20687	Mon	File 04401 (200 bytes) empty text header	FSK 200/1000	(PY)
F06a	16-12	0730	6957	Tue	File 04436 (3139 bytes)	FSK 200/1000	(PY)
F06a	16-12	0745	9425	Tue	File 04436 (3139 bytes)	FSK 200/1000	(PY)
F06a	16-12	0800	11611	Tue	File 04436 (3139 bytes)	FSK 200/1000	(PY)
F06a	16-12	1100	13532	Tue	File 44460 (binary contents)	FSK 200/1000	(AB/PY)
F06a	16-12	1115	11123	Tue	File 44460 (binary contents)	FSK 200/1000	(AB/PY)
F06a	16-12	1130	9426	Tue	File 44460 (binary contents)	FSK 200/1000	(AB/PY)
F06a	16-12	1600	11122	Tue	File 44460 (binary contents)	FSK 200/1000	(AB)
F06a	16-12	1615	9064	Tue	File 44460 (binary contents)	FSK 200/1000	(AB)
F06a	16-12	1630	6923	Tue	File 44460 (binary contents)	FSK 200/1000	(AB)
F06a	17-12	0600	14369	Wed	File 72473 (binary contents)	FSK 200/1000	(AB)
F06a	17-12	0615	16337	Wed	File 72473 (binary contents)	FSK 200/1000	(AB)
F06a	17-12	0630	19633	Wed	File 72473 (binary contents)	FSK 200/1000	(AB)
F06a	17-12	0630	13532	Wed	File 44491 (1715 bytes) empty text header	FSK 200/1000	(PY)
F06a	17-12	0645	11514	Wed	File 44491 (1715 bytes) empty text header	FSK 200/1000	(PY)
F06a	17-12	0700	11046	Wed	File 44415 (binary contents)	FSK 200/1000	(AB)
F06a	17-12	0700	9426	Wed	File 44491 (1715 bytes) empty text header	FSK 200/1000	(PY)
F06a	17-12	0715	9065	Wed	File 44415 (binary contents)	FSK 200/1000	(AB)
F06a	17-12	0730	7479	Wed	File 44415 (binary contents)	FSK 200/1000	(AB)
F06a	17-12	1150	5913	Wed	File 01500.tlg (500 bytes) no text header, binary contents	FSK 200/1000	(PY)
F06a	17-12	1200	9178	Wed	File 44415 (binary contents)	FSK 200/1000	(AB)
F06a	17-12	1200	7992	Wed	File 01500.tlg (500 bytes) no text header, binary contents	FSK 200/1000	(PY)
F06a	17-12	1210	10687	Wed	File 01500.tlg (500 bytes) no text header, binary contents	FSK 200/1000	(PY)
F06a	17-12	1215	7624	Wed	File 44415 (binary contents)	FSK 200/1000	(AB)
F06a	17-12	1230	5789	Wed	File 44415 (binary contents)	FSK 200/1000	(AB)
F06a	18-12	0600	14369	Thu	File 72473 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	18-12	0615	16337	Thu	File 72473 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	18-12	0630	19633	Thu	File 72473 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	18-12	0800	5913	Thu	File 04336.tlg (2048 bytes) 44400 60993 84321 18004 00009 text header, binary contents	FSK 200/1000	(PY)
F06a	18-12	0800	13462	Thu	Files 44424_~1 (1536 bytes, binary contents, empty text header) and 44425_~1 (1536 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	18-12	0810	5092	Thu	File 04336.tlg (2048 bytes) 44400 60993 84321 18004 00009 text header, binary contents	FSK 200/1000	(PY)
F06a	18-12	0815	11448	Thu	Files 44424_~1 (1536 bytes, binary contents, empty text header) and 44425_~1 (1536 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	18-12	0820	3886	Thu	File 04336.tlg (2048 bytes) 44400 60993 84321 18004 00009 text header, binary contents	FSK 200/1000	(PY)
F06a	18-12	0830	9354	Thu	Files 44424_~1 (1536 bytes, binary contents, empty text header) and 44425_~1 (1536 bytes, binary contents, empty text header)	FSK 200/1000	(PY)
F06a	20-12	1600	20539	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	20-12	1615	18732	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-CYP)

F06a	20-12	1630	16252	Sat	File 44437 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	21-12	1600	18357	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	21-12	1615	17515	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	21-12	1630	15693	Sun	File 44437 (binary contents)	FSK 200/1000	(AB-FIN)
F06a	22-12	0700	11046	Mon	File 44418 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	0715	9065	Mon	File 44418 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	0730	7479	Mon	File 44418 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	0800	12184	Mon	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	0815	10169	Mon	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	0830	7739	Mon	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	1200	9178	Mon	File 44418 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	1215	7624	Mon	File 44418 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	1220	6957	Mon	File 04402 (binary contents)	FSK 200/1000	(PY)
F06a	22-12	1230	5789	Mon	File 44418 (binary contents)	FSK 200/1000	(AB)
F06a	22-12	1235	9425	Mon	File 04402 (binary contents)	FSK 200/1000	(AB/PY)
F06a	22-12	1250	11611	Mon	File 04402 (binary contents)	FSK 200/1000	(AB/PY)
F06a	23-12	0700	11046	Tue	File 44419 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	0715	9065	Tue	File 44419 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	0730	7479	Tue	File 44419 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	0800	12184	Tue	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	0815	10169	Tue	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	0830	7739	Tue	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	1100	13532	Tue	File 44461 (binary contents)	FSK 200/1000	(AB/PY)
F06a	23-12	1115	11123	Tue	File 44461 (binary contents)	FSK 200/1000	(AB/PY)
F06a	23-12	1130	9426	Tue	File 44461 (binary contents)	FSK 200/1000	(AB/PY)
F06a	23-12	1200	9178	Tue	File 44419 (binary contents)	FSK 200/1000	(AB/PY)
F06a	23-12	1215	7624	Tue	File 44419 (binary contents)	FSK 200/1000	(AB/PY)
F06a	23-12	1222	10687	Tue	File 04441 (1091 bytes) binary contents, transmitter turned on mid-message and turned off still mid-message, no other transmissions found for this cycle	FSK 200/1000	(PY)
F06a	23-12	1230	5789	Tue	File 44419 (binary contents)	FSK 200/1000	(AB/PY)
F06a	23-12	1317	5913	Tue	File 04442 (5850 bytes) empty text header, binary contents. Late start mid-message and cut off mid-message	FSK 200/1000	(PY)
F06a	23-12	1330	7992	Tue	File 04442 (5850 bytes) empty text header, binary contents Cut off after 1m, idle for 9m, restarted for 2m then cut off mid-message	FSK 200/1000	(PY)
F06a	23-12	1345	10687	Tue	File 04442 (5850 bytes) empty text header, binary contents	FSK 200/1000	(PY)
F06a	23-12	1440	6957	Tue	File 04443 (3610 bytes) empty text header, binary contents	FSK 200/1000	(PY)
F06a	23-12	1455	9425	Tue	File 04443 (3610 bytes) empty text header, binary contents	FSK 200/1000	(PY)
F06a	23-12	1510	11611	Tue	File 04443 (3610 bytes) empty text header, binary contents	FSK 200/1000	(PY)
F06a	23-12	1600	11122	Tue	File 44461 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	1615	9064	Tue	File 44461 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	1630	6923	Tue	File 44461 (binary contents)	FSK 200/1000	(AB)
F06a	23-12	1800	5089	Tue	Too weak to decode (presumably file 04444)	FSK 200/1000	(PY)

F06a	23-12	1815	7337	Tue	Too weak to decode (presumably file 04444)	FSK 200/1000	(PY)
F06a	23-12	1830	9481	Tue	Too weak to decode (presumably file 04444)	FSK 200/1000	(PY)
F06a	24-12	0600	14369	Wed	File 44574 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	24-12	0615	16337	Wed	File 44574 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	24-12	0630	19633	Wed	File 44574 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	24-12	0700	11046	Wed	File 44420 (binary contents)	FSK 200/1000	(AB)
F06a	24-12	0715	9065	Wed	File 44420 (binary contents)	FSK 200/1000	(AB)
F06a	24-12	0730	7479	Wed	File 44420 (binary contents)	FSK 200/1000	(AB)
F06a	24-12	0900	5089	Wed	File 04409 (1194 bytes, binary contents)	FSK 200/1000	(PY)
F06a	24-12	0915	7337	Wed	File 04409 (1194 bytes, binary contents)	FSK 200/1000	(PY)
F06a	24-12	0930	9481	Wed	File 04409 (1194 bytes, binary contents)	FSK 200/1000	(PY)
F06a	24-12	1000	9425	Wed	File 04409 (1194 bytes, binary contents)	FSK 200/1000	(PY)
F06a	24-12	1015	10687	Wed	File 04409 (1194 bytes, binary contents)	FSK 200/1000	(PY)
F06a	24-12	1030	11611	Wed	File 04409 (1194 bytes, binary contents)	FSK 200/1000	(PY)
F06a	24-12	1200	9178	Wed	File 44420 (binary contents)	FSK 200/1000	(AB)
F06a	24-12	1215	7624	Wed	File 44420 (binary contents)	FSK 200/1000	(AB)
F06a	24-12	1230	5789	Wed	File 44420 (binary contents)	FSK 200/1000	(AB)
F06a	25-12	0600	14369	Thu	File 44574 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	25-12	0615	16337	Thu	File 44574 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	25-12	0630	19633	Thu	File 44574 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	25-12	0700	11046	Thu	File 44421 (Binary contents)	FSK 200/1000	(AB)
F06a	25-12	0715	9065	Thu	File 44421 (Binary contents)	FSK 200/1000	(AB)
F06a	25-12	0730	7479	Thu	File 44421 (Binary contents)	FSK 200/1000	(AB)
F06a	25-12	1200	9178	Thu	File 44421 (Binary contents)	FSK 200/1000	(AB)
F06a	25-12	1215	7624	Thu	File 44421 (Binary contents)	FSK 200/1000	(AB)
F06a	25-12	1230	5789	Thu	File 44421 (Binary contents)	FSK 200/1000	(AB)
F06a	26-12	0630	13532	Fri	File 44492 (912 bytes) empty text header	FSK 200/1000	(PY)
F06a	26-12	0645	11514	Fri	File 44492 (912 bytes) empty text header	FSK 200/1000	(PY)
F06a	26-12	0700	11046	Fri	File 44422 (Binary contents)	FSK 200/1000	(AB)
F06a	26-12	0700	9426	Fri	File 44492 (912 bytes) empty text header	FSK 200/1000	(PY)
F06a	26-12	0715	9065	Fri	File 44422 (Binary contents)	FSK 200/1000	(AB)
F06a	26-12	0730	7479	Fri	File 44422 (Binary contents)	FSK 200/1000	(AB)
F06a	26-12	0905	5913	Fri	Files 04445 (2400 bytes) and 04446 (2600 bytes) empty text headers, binary contents. Interruptions in modulation then restart and cut off mid-message	FSK 200/1000	(PY)
F06a	26-12	0920	7992	Fri	Files 04445 (2400 bytes) and 04446 (2600 bytes) empty text headers, binary contents	FSK 200/1000	(PY)
F06a	26-12	0935	10687	Fri	Files 04445 (2400 bytes) and 04446 (2600 bytes) empty text headers, binary contents. Late start mid-message	FSK 200/1000	(PY)
F06a	26-12	1200	9178	Fri	File 44422 (Binary contents)	FSK 200/1000	(AB)
F06a	26-12	1215	7624	Fri	File 44422 (Binary contents)	FSK 200/1000	(AB)
F06a	26-12	1230	5789	Fri	File 44422 (Binary contents)	FSK 200/1000	(AB)
F06a	26-12	2000	6825	Fri	File 04449 (binary contents)	FSK 200/1000	(AB)

F06a	26-12	2015	5093	Fri	File 04449 (binary contents)	FSK 200/1000	(AB)
F06a	26-12	2030	4475	Fri	File 04449 (binary contents)	FSK 200/1000	(AB)
F06a	27-12	0700	11572	Sat	File 04449 (binary contents)	FSK 200/1000	(AB)
F06a	27-12	0715	10461	Sat	File 04449 (binary contents)	FSK 200/1000	(AB)
F06a	27-12	0730	9356	Sat	File 04449 (binary contents)	FSK 200/1000	(AB)
F06a	29-12	0700	11046	Mon	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	29-12	0715	9065	Mon	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	29-12	0730	7479	Mon	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	29-12	1200	9178	Mon	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	29-12	1215	7624	Mon	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	29-12	1230	5789	Mon	File 44423 (binary contents)	FSK 200/1000	(AB)
F06a	30-12	0700	11046	Tue	File 44424 (binary contents)	FSK 200/1000	(AB)
F06a	30-12	0715	9065	Tue	File 44424 (binary contents)	FSK 200/1000	(AB)
F06a	30-12	0730	7479	Tue	File 44424 (binary contents)	FSK 200/1000	(AB)
F06a	30-12	1200	9178	Tue	File 44424 (binary contents)	FSK 200/1000	(AB)
F06a	30-12	1215	7624	Tue	File 44424 (binary contents)	FSK 200/1000	(AB)
F06a	30-12	1230	5789	Tue	File 44424 (binary contents)	FSK 200/1000	(AB)
F06a	31-12	0600	14369	Wed	File 64475 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	31-12	0615	16337	Wed	File 64475 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	31-12	0630	19633	Wed	File 64475 (binary contents)	FSK 200/1000	(AB-CYP)
F06a	31-12	0700	11046	Wed	File 44425 (binary contents)	FSK 200/1000	(AB)
F06a	31-12	0715	9065	Wed	File 44425 (binary contents)	FSK 200/1000	(AB)
F06a	31-12	0730	7479	Wed	File 44425 (binary contents)	FSK 200/1000	(AB)
F06a	31-12	1200	9178	Wed	File 44425 (binary contents)	FSK 200/1000	(AB)
F06a	31-12	1215	7624	Wed	File 44425 (binary contents)	FSK 200/1000	(AB)
F06a	31-12	1230	5789	Wed	File 44425 (binary contents)	FSK 200/1000	(AB)
F07	2-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	2-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	2-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	2-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	2-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	2-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-12	2100	7526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-12	2110	7453	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-12	2120	6993	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-12	2130	6773	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-12	2140	5748	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	4-12	2150	5169	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	9-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	9-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	9-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	9-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)

F07	9-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	9-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-12	2100	7526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-12	2110	7453	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-12	2120	6993	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-12	2130	6773	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-12	2140	5748	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	11-12	2150	5169	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	16-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	16-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	16-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	16-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	16-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	16-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-12	2100	7526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-12	2110	7453	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-12	2120	6993	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-12	2130	6773	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-12	2140	5748	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	18-12	2150	5169	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	23-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-12	2100	7526	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-12	2110	7453	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-12	2120	6993	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-12	2130	6773	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-12	2140	5748	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	25-12	2150	5169	Thu	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-12	2100	7526	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-12	2110	7453	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-12	2120	6993	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-12	2130	6773	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-12	2140	5748	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
F07	30-12	2150	5169	Tue	Russian intel.	5xMFSK-16/10Bd/20Hz+250Bd BPSK	(AB)
KRE	1-12	0650	14150	Mon	DPRK embassy Moscow wkg DPRK embassy Geneve	DPRK ARQ 600/600 LSB	(AB)
KRE	1-12	0700	17140	Mon	DPRK embassy Moscow wkg DPRK embassy Geneve	DPRK ARQ 600/600 LSB	(AB)
KRE	1-12	0805	17140	Mon	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 600/600 LSB	(AB)
KRE	1-12	1254	17140	Mon	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 600/600 LSB	(AB)

KRE	1-12	1254	18650	Mon	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	1-12	1302	14150	Mon	DPRK embassy Moscow wkg DPRK embassy Geneve	DPRK ARQ 600/600 LSB	(AB)
KRE	2-12	0709	14800	Tue	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 600/600 LSB	(AB)
KRE	2-12	0813	13200	Tue	DPRK embassy Moscow wkg DPRK embassy Warszaw. QSY freq 13400 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	2-12	0818	13200	Tue	DPRK embassy Moscow wkg DPRK embassy Warszaw. QSY freq 13400 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	4-12	0711	17140	Thu	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 600/600 LSB	(AB)
KRE	4-12	0719	15550	Thu	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	4-12	0739	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	4-12	1225	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	4-12	1243	16252	Thu	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	4-12	1307	16250	Thu	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	5-12	0810	12600	Fri	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	5-12	0818	13200	Fri	DPRK embassy Moscow wkg DPRK embassy Warszaw	DPRK ARQ 600/600 LSB	(AB)
KRE	6-12	1301	16100	Sat	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	8-12	1229	13600	Mon	DPRK embassy Moscow wkg DPRK embassy Vienna	DPRK ARQ 600/600 LSB	(AB)
KRE	10-12	0653	14150	Wed	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneve	DPRK ARQ 600/600 LSB	(AB)
KRE	11-12	0734	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	11-12	1300	14150	Thu	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	11-12	1300	14250	Thu	DPRK embassy Moscow wkg DPEK embassy Bucharest	DPRK ARQ 600/600 LSB	(AB)
KRE	12-12	0645	14150	Fri	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. QSY freqs 11450, 12600, 16100 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	12-12	0725	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Berlin. QSY freqs 13800, 14370, 14800 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	12-12	1305	14150	Fri	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva. QSY freq 16100 kHz	DPRK ARQ 600/600 LSB	(AB)
KRE	12-12	1305	14250	Fri	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK ARQ 600/600 LSB	(AB)
KRE	15-12	0701	17140	Mon	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 600/600 LSB	(AB)
KRE	15-12	1039	14300	Mon	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	15-12	1244	18650	Mon	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	15-12	1302	14150	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	15-12	1302	14250	Mon	DPRK embassy Moscow wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	15-12	1345	14150	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	16-12	0645	14150	Tue	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	16-12	0804	11090	Tue	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	16-12	1200	16407	Tue	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	16-12	1230	17140	Tue	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 600/600 LSB	(AB)
KRE	16-12	1232	14320	Tue	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	16-12	1300	14150	Tue	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	16-12	1306	14100	Tue	DPRK Permanent Mission to the UN, Geneva wkg DPRK embassy Bern	DPRK ARQ 600/600 LSB	(AB)
KRE	16-12	1500	11082	Tue	DPRK embassy Moscow wkg DPRK embassy Warszawa	DPRK ARQ 1200/600 LSB	(AB)
KRE	17-12	0646	14150	Wed	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	17-12	0808	13400	Wed	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)

KRE	17-12	0824	14620	Wed	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	18-12	0659	14150	Thu	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	18-12	0707	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	18-12	0810	11045	Thu	DPRK embassy Moscow wkg DPRK embassy Warszawa	DPRK ARQ 600/600 LSB	(AB)
KRE	18-12	0822	11045	Thu	DPRK embassy	DPRK ARQ 600/600 LSB	(AB)
KRE	19-12	0701	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	19-12	0812	11090	Fri	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	19-12	0815	14250	Fri	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK ARQ 600/600 LSB	(AB)
KRE	19-12	0815	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	19-12	0825	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	19-12	1329	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK ARQ 600/600 LSB	(AB)
KRE	22-12	0648	14150	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	22-12	0818	13200	Mon	DPRK embassy Moscow wkg DPRK embassy Warszawa	DPRK ARQ 600/600 LSB	(AB)
KRE	22-12	0842	14250	Mon	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK ARQ 600/600 LSB	(AB)
KRE	22-12	1215	14300	Mon	DPRK embassy Moscow wkg DPRK embassy berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	23-12	0642	14150	Tue	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	23-12	0805	13250	Tue	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	24-12	0648	14150	Wed	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneve	DPRK ARQ 600/600 LSB	(AB)
KRE	24-12	0804	11090	Wed	DPRK embassy Stockholm wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	24-12	1200	11090	Wed	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	24-12	1209	13200	Wed	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	25-12	1335	14200	Thu	DPRK embassy Moscow wkg DPRK embassy Prague	DPRK ARQ 600/600 LSB	(AB)
KRE	25-12	1335	14300	Thu	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK ARQ 600/600 LSB	(AB)
KRE	26-12	1305	16252	Fri	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneve	DPRK ARQ 600/600 LSB	(AB)
KRE	26-12	1307	14100	Fri	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	26-12	1313	13100	Fri	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneve	DPRK ARQ 600/600 LSB	(AB)
KRE	26-12	1412	14100	Fri	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	26-12	1412	14150	Fri	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneve	DPRK ARQ 600/600 LSB	(AB)
KRE	26-12	1416	11090	Fri	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	26-12	1433	14300	Fri	DPRK embassy Moscow wkg DPRK embassy Sofia	DPRK ARQ 600/600 LSB	(AB)
KRE	29-12	0646	14150	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneve. QSY freqs 16400 and 16450 kHz	DPRK ARQ 1200/600 LSB	(AB)
KRE	29-12	0751	13850	Mon	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	29-12	0806	11090	Mon	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	29-12	1418	14150	Mon	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneve	DPRK ARQ 1200/600 LSB	(AB)
KRE	29-12	1438	12850	Mon	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	29-12	1453	14300	Mon	DPRK embassy Moscow wkg DPRK embassy Berlin. QSY freqs 16150 and 17400 kHz	DPRK ARQ 1200/600 LSB	(AB)
KRE	30-12	0805	11090	Tue	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 1200/600 LSB	(AB)
KRE	30-12	0808	13220	Tue	Unid DPRK embassy wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	30-12	1210	13120	Tue	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK ARQ 600/600 LSB	(AB)
KRE	30-12	1225	14300	Tue	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	30-12	1237	17140	Tue	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)

KRE	30-12	1241	14250	Tue	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK ARQ 600/600 LSB	(AB)
KRE	30-12	1314	14150	Tue	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	0740	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Berlin (off 0743z)	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	0741	14200	Wed	DPRK embassy Moscow wkg DPRK embassy Prague	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	0753	14300	Wed	DPRK embassy Moscow wkg DPRK embassy Berlin	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	0807	14250	Wed	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	0810	13120	Wed	DPRK embassy Moscow wkg DPRK embassy Bucharest	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	0831	17140	Wed	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 120/600 LSB	(AB)
KRE	31-12	0839	17140	Wed	DPRK embassy Moscow wkg DPRK embassy Rome	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	0841	18650	Wed	DPRK embassy Rome wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	0944	14150	Wed	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	1217	14650	Wed	DPRK embassy Moscow wkg DPRK embassy Berlin. A second KRE station appeared on top of this transmission at 1224z	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	1224	14650	Wed	Unid DPRK embassy sending "13600" for 9 mins, on top of the Moscow-Berlin transmission	DPRK ARQ 1200/600 LSB	(AB)
KRE	31-12	1225	13120	Wed	DPRK embassy Moscow wkg DPRK embassy Stockholm	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	1225	13125	Wed	DPRK embassy Stockholm wkg DPRK embassy Moscow	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	1300	16250	Wed	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
KRE	31-12	1335	14250	Wed	DPRK embassy Moscow wkg DPRK Permanent Mission to the UN, Geneva	DPRK ARQ 600/600 LSB	(AB)
M01	14-12	0700	5465	Sun	197 543 30 = 43762 ...	CW	(HFD)
M01	16-12	1800	5320	Tue	197 123 30 = 21435 ---	CW	(HFD-HOL)
M01	16-12	2000	4490	Tue	197 456 30 = 83744 ...	CW	(HFD-HOL)
M01	23-12	2000	4490	Tue	197 850 850 30 30 = = 64092 17490 63851 ... 87140 90984 36379 850 850 30 30 000	CW	(AB-S)
M01	27-12	1500	5810	Sat	197 175 30 = 27482 ...	CW	(HFD-HOL)
M12	1-12	0200	14736	Mon	741 741 741 1 8071 65 8071 65 02597 84115 62437 ... 33124 51513 01733 000 000	CW	(HFD-J)
M12	1-12	0220	13478	Mon	741 741 741 1 8071 65 8071 65 02597 84115 62437 ... 33124 51513 01733 000 000	CW	(PY/HFD-J)
M12	1-12	0240	12195	Mon	741 741 741 1 8071 65 8071 65 02597 84115 62437 ... 33124 51513 01733 000 000	CW	(PY/HFD-j)
M12	1-12	1900	12135	Mon	573 573 573 1 5954 102 5954 102 94383 ...	CW	(PY)
M12	1-12	1920	11452	Mon	573 573 573 1 5954 102 5954 102 94383 ...	CW	(PY)
M12	1-12	1940	10627	Mon	573 573 573 1 5954 102 5954 102 94383 ...	CW	(PY)
M12	2-12	0300	14354	Tue	311 311 311 1 ...	CW	(HFD-J)
M12	2-12	0320	12154	Tue	311 311 311 1 ...	CW	(HFD-J)
M12	2-12	0340	11154	Tue	311 311 311 1 ...	CW	(HFD-J)
M12	3-12	2310	11129	Wed	133 133 133 1 ...	CW	(HFD)
M12	3-12	2330	10329	Wed	133 133 133 1 ...	CW	(HFD)
M12	3-12	2350	9329	Wed	133 133 133 1 ...	CW	(HFD)
M12	4-12	1800	11564	Thu	Too weak to copy	CW	(AB)
M12	4-12	1820	10487	Thu	Too weak to copy	CW	(AB)
M12	4-12	1840	9319	Thu	Too weak to copy	CW	(AB)
M12	4-12	2300	9134	Thu	457 457 457 1 ...	CW	(HFD)
M12	4-12	2320	8134	Thu	457 457 457 1 ...	CW	(HFD)

M12	4-12	2340	7534	Thu	457 457 457 1 ...	CW	(HFD)
M12	5-12	2200	6897	Fri	871 81 871 1 1362 123 1362 123 54925 22132 18473 ... 21928 65588 50516 000 000	CW	(PY/HFD)
M12	5-12	2220	7795	Fri	871 81 871 1 1362 123 1362 123 54925 22132 18473 ... 21928 65588 50516 000 000	CW	(PY/HFD)
M12	5-12	2240	8187	Fri	871 81 871 1 1362 123 1362 123 54925 22132 18473 ... 21928 65588 50516 000 000	CW	(PY/HFD)
M12	6-12	2200	6897	Sat	871 871 871 1 ...	CW	(AB)
M12	6-12	2220	7795	Sat	871 871 871 1 ...	CW	(AB)
M12	6-12	2240	8187	Sat	871 871 871 1 ...	CW	(AB)
M12	7-12	1900	10627	Sun	573 573 573 1 5954 102 5954 102 94383 61795 65532 ... 74744 33695 000 000	CW	(PY)
M12	7-12	1900	11452	Sun	573 573 573 1 5954 102 5954 102 94383 61795 65532 ... 74744 33695 000 000	CW	(PY)
M12	7-12	1900	12135	Sun	573 573 573 1 5954 102 5954 102 94383 61795 65532 ... 74744 33695 000 000	CW	(PY)
M12	8-12	1900	12135	Mon	573 573 573 1 7415 114 7415 114 ...	CW	(AB)
M12	8-12	1920	11452	Mon	573 573 573 1 7415 114 7415 114 ...	CW	(AB)
M12	8-12	1940	10627	Mon	573 573 573 1 7415 114 7415 114 ...	CW	(Ab)
M12	11-12	1800	11564	Thu	258 258 258 1 8624 83 8624 83 22525 56328 36202 ... 68969 97843 97760 000 000	CW	(AB)
M12	11-12	1820	10487	Thu	258 258 258 1 8624 83 8624 83 22525 56328 36202 ... 68969 97843 97760 000 000	CW	(AB)
M12	11-12	1840	9319	Thu	258 258 258 1 8624 83 8624 83 22525 56328 36202 ... 68969 97843 97760 000 000	CW	(AB)
M12	11-12	1900	11564	Thu	258 258 258 1 2173 171 2173 171 35952 ...	CW	(PY)
M12	11-12	1920	10487	Thu	258 258 258 1 2173 171 2173 171 35952 ...	CW	(PY)
M12	11-12	1940	9319	Thu	258 258 258 1 2173 171 2173 171 35952 ...	CW	(PY)
M12	12-12	2200	6897	Fri	871 871 871 1 1362 123 1362 123 54925 22132 18473 ... 21938 65588 50516 000 000	CW	(AB)
M12	12-12	2220	7795	Fri	871 871 871 1 1362 123 1362 123 54925 22132 18473 ... 21938 65588 50516 000 000	CW	(AB)
M12	12-12	2240	8187	Fri	871 871 871 1 1362 123 1362 123 54925 22132 18473 ... 21938 65588 50516 000 000	CW	(AB)
M12	13-12	2200	6897	Sat	871 871 871 1 1362 123 1362 123 54925 22132 18473 ... 21938 65588 50516 000 000	CW	(AB)
M12	13-12	2220	7795	Sat	871 871 871 1 1362 123 1362 123 54925 22132 18473 ... 21938 65588 50516 000 000	CW	(AB)
M12	13-12	2240	8187	Sat	871 871 871 1 1362 123 1362 123 54925 22132 18473 ... 21938 65588 50516 000 000	CW	(AB)
M12	14-12	1900	12135	Sun	573 573 573 1 7415 114 7415 114 68341 13682 15772 ... 68502 14616 82031 000 000	CW	(AB-S/PY)
M12	14-12	1920	11452	Sun	573 573 573 1 7415 114 7415 114 68341 13682 15772 ... 68502 14616 82031 000 000	CW	(AB-S/PY)
M12	14-12	1940	10627	Sun	573 573 573 1 7415 114 7415 114 68341 13682 15772 ... 68502 14616 82031 000 000	CW	(AB-S/PY)
M12	15-12	1900	12135	Mon	573 573 573 1 9751 111 9751 111 14229 30303 66590 ... 94074 81551 12089 000 000	CW	(AB-S)

M12	15-12	1920	11452	Mon	573 573 573 1 9751 111 9751 111 14229 30303 66590 ... 94074 81551 12089 000 000	CW	(AB-S)
M12	15-12	1940	10627	Mon	573 573 573 1 9751 111 9751 111 14229 30303 66590 ... 94074 81551 12089 000 000	CW	(Ab-S)
M12	18-12	1800	11564	Thu	258 258 258 1 (too weak to copy)	CW	(AB)
M12	18-12	1820	10487	Thu	258 258 258 1 (too weak to copy)	CW	(AB)
M12	18-12	1840	9319	Thu	258 258 258 1 (too weak to copy)	CW	(AB)
M12	18-12	1900	11564	Thu	258 258 258 1 3586 154 3586 154 ...	CW	(PY)
M12	18-12	1920	10487	Thu	258 258 258 1 3586 154 3586 154 ...	CW	(PY)
M12	18-12	1940	9319	Thu	258 258 258 1 3586 154 3586 154 ...	CW	(PY)
M12	19-12	2200	6897	Fri	871 871 871 1 (too weak to copy)	CW	(AB)
M12	19-12	2220	7795	Fri	871 871 871 1 (too weak to copy)	CW	(AB)
M12	19-12	2240	8187	Fri	871 871 871 1 (too weak to copy)	CW	(AB)
M12	20-12	2200	6897	Sat	871 871 871 1 (too weak to copy)	CW	(AB)
M12	20-12	2220	7795	Sat	871 871 871 1 (too weak to copy)	CW	(AB)
M12	20-12	2240	8187	Sat	871 871 871 1 (too weak to copy)	CW	(AB)
M12	21-12	1900	12135	Sun	573 573 573 1 9751 111 9751 111 ... (too weak to copy)	CW	(AB-S)
M12	21-12	1920	11452	Sun	573 573 573 1 9751 111 9751 111 ... (too weak to copy)	CW	(AB-S)
M12	21-12	1940	10627	Sun	573 573 573 1 9751 111 9751 111 ... (too weak to copy)	CW	(AB-S)
M12	27-12	1900	11564	Sat	258 258 258 1 3050 191 3050 191 ...	CW	(PY)
M12	27-12	1920	10487	Sat	258 258 258 1 3050 191 3050 191 ...	CW	(PY)
M12	27-12	1940	9319	Sat	258 258 258 1 3050 191 3050 191 ...	CW	(PY)
M12	27-12	2200	6897	Sat	871 871 871 1 4395 159 4395 159 34046 25918 61584 ... 10378 65135 61828 000 000	CW	(AB)
M12	27-12	2220	7795	Sat	871 871 871 1 4395 159 4395 159 34046 25918 61584 ... 10378 65135 61828 000 000	CW	(AB)
M12	27-12	2240	8187	Sat	871 871 871 1 4395 159 4395 159 34046 25918 61584 ... 10378 65135 61828 000 000	CW	(AB)
M12	28-12	1900	12135	Sun	573 573 573 1 ... (too weak to copy)	CW	(AB-S)
M12	28-12	1920	11452	Sun	573 573 573 1 ... (too weak to copy)	CW	(AB-S)
M12	28-12	1940	10627	Sun	573 573 573 1 ... (too weak to copy)	CW	(AB-S)
M12	29-12	1900	12135	Mon	573 573 573 1 ... (too weak to copy)	CW	(AB-S/HFD)
M12	29-12	1920	11452	Mon	573 573 573 1 ... (too weak to copy)	CW	(AB-S/HFD)
M12	29-12	1940	10627	Mon	573 573 573 1 ... (too weak to copy)	CW	(AB-S/HFD)
M14	16-12	0720	9463	Tue	801 301 301 55 55 = = 79364 90615 37526 ... 23976 55244 45377 = = 301 301 55 55 00000	CW	(PY)
M14	17-12	1433	9463	Wed	Slow beeps then 801 once	CW	(PY)
M14	17-12	1450	9463	Wed	801 392 392 50 50 = = 62652 60225 68228 ... 80826 92014 60740 = = 392 392 50 50 561 561 50 50 = = 56747 17825 29098 ... 31086 76832 62888 = = 561 561 50 50 00000	CW	(PY)
M14	19-12	0748	9463	Fri	Slow beeps	CW	(PY)

M14	19-12	0800	9463	Fri	801 932 55 932 55 = = 32249 96716 13391 ... 27355 09466 58048 = = 932 935 55 55 00000	CW	(PY)
M21	28-12	0808	5397	Sun	Russian Air Defence =991108??8?????	CW	(TJ)
M23	9-12	1500	6961	Tue	8 (R5m45s)	CW	(AB)
M23	9-12	1600	6961	Tue	8 (R5m45s)	CW	(AB)
M23	9-12	1700	6961	Tue	8 (R5m45s)	CW	(AB)
M23	9-12	1800	6961	Tue	8 (R5m45s)	CW	(AB)
M23	9-12	1900	6961	Tue	8 (R5m45s)	CW	(AB)
M23	9-12	2000	6961	Tue	8 (R5m45s)	CW	(AB)
M23	9-12	2100	6961	Tue	8 (R5m45s)	CW	(AB)
M23	9-12	2200	6961	Tue	8 (R5m45s)	CW	(AB)
M23	9-12	2300	6961	Tue	8 (R5m45s)	CW	(AB)
M23	10-12	0000	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	0100	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	0200	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	0300	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	0400	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	0500	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	0600	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	0700	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	0800	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	0900	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1000	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1100	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1200	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1300	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1400	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1500	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1600	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1600	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1700	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1800	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	1900	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	2000	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	2100	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	2200	6961	Wed	8 (R5m45s)	CW	(AB)
M23	10-12	2300	6961	Wed	8 (R5m45s)	CW	(AB)
M23	11-12	0000	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	0100	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	0200	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	0300	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	0400	6961	Thu	8 (R5m45s)	CW	(AB)

M23	11-12	0500	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	0600	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	0700	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	0800	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	0900	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	1000	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	1100	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	1200	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	1300	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	1400	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	1500	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	1600	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	1601	6961	Thu	8 (R4m45s)	CW	(AB)
M23	11-12	1700	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	1800	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	1900	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	2000	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	2100	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	2200	6961	Thu	8 (R5m45s)	CW	(AB)
M23	11-12	2300	6961	Thu	8 (R5m45s)	CW	(AB)
M23	12-12	0000	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	0100	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	0200	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	0300	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	0400	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	0500	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	0600	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	0700	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	0800	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	0900	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1000	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1100	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1200	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1300	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1400	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1500	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1600	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1600	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1700	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1800	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	1900	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	2000	6961	Fri	8 (R5m45s)	CW	(AB)

M23	12-12	2100	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	2200	6961	Fri	8 (R5m45s)	CW	(AB)
M23	12-12	2300	6961	Fri	8 (R5m45s)	CW	(AB)
M23	13-12	0000	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	0100	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	0200	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	0300	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	0400	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	0500	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	0600	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	0700	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	0800	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	0900	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1000	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1100	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1200	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1300	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1400	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1500	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1600	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1600	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1700	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1800	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	1900	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	2000	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	2100	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	2200	6961	Sat	8 (R5m45s)	CW	(AB)
M23	13-12	2300	6961	Sat	8 (R5m45s)	CW	(AB)
M23	14-12	0000	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	0100	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	0200	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	0300	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	0400	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	0500	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	0600	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	0700	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	0800	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	0900	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	1000	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	1100	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	1200	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	1300	6961	Sun	8 (R5m45s)	CW	(AB)

M23	14-12	1400	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	1500	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	1600	6961	Sun	8 (R5m45s) Followed by a long tone (1m42s)	CW	(AB)
M23	14-12	1700	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	1800	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	1900	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	2000	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	2100	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	2200	6961	Sun	8 (R5m45s)	CW	(AB)
M23	14-12	2300	6961	Sun	8 (R5m45s)	CW	(AB)
M23	15-12	0000	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	0100	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	0200	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	0300	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	0400	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	0500	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	0600	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	0700	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	0800	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	0900	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	1000	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	1100	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	1200	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	1300	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	1400	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	1500	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	1600	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	1700	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	1800	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	1900	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	2000	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	2100	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	2200	6961	Mon	8 (R5m45s)	CW	(AB)
M23	15-12	2300	6961	Mon	8 (R5m45s)	CW	(AB)
M23	16-12	0000	6961	Tue	8 (R5m45s)	CW	(TM)
M23	16-12	0100	6961	Tue	8 (R5m45s)	CW	(TM)
M23	16-12	0200	6961	Tue	8 (R5m45s)	CW	(TM)
M23	16-12	0300	6961	Tue	8 (R5m45s)	CW	(TM)
M23	16-12	0400	6961	Tue	8 (R5m45s)	CW	(TM)
M23	16-12	0500	6961	Tue	8 (R5m45s)	CW	(TM)
M23	16-12	0600	6961	Tue	8 (R5m45s)	CW	(TM)
M23	16-12	0652	6961	Tue	Long tone (5s) followed by TEST DE ICOM ICOM (R7m18s) 8 (R5m45s)	CW	(AB)

M23	16-12	0800	6961	Tue	8 (R5m45s)	CW	(AB)
M23	16-12	0900	6961	Tue	8 (R5m45s)	CW	(AB)
M23	16-12	1000	6961	Tue	8 (R5m45s)	CW	(AB)
M23	16-12	1100	6961	Tue	8 (R5m45s)	CW	(AB)
M23	16-12	1200	6961	Tue	8 (R5m45s)	CW	(AB)
M23	16-12	1300	6961	Tue	8 (R5m45s)	CW	(AB)
M23	16-12	1400	6961	Tue	8 (R5m45s)	CW	(AB)
M23	16-12	1500	6961	Tue	8 (R5m45s)	CW	(AB)
M23	16-12	1600	6961	Tue	8 (R5m45s)	CW	(AB)
M23	16-12	1700	6961	Tue	8 (R5m45s)	CW	(AB)
M42	4-12	1245	16156	Thu	UAL: MFA Moscow. Test: UAL RYRYRYRYRYRYRYRYRYRY	FSK 75/500	(AB)
M42	4-12	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. UAL UAL UAL followed by operator chat and a message.	FSK 75/500	(AB)
M42	4-12	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow. UAG UAG UAG followed by operator chat and a message.	FSK 75/500	(AB)
M42	8-12	0801	17466	Mon	Russian diplo	Serdolik v2	(RO)
M42	10-12	0827	12112	Wed	Russian diplo	MFSK-66	(AB)
M42	10-12	0854	13458	Wed	Russian diplo	MFSK-66	(AB)
M42	10-12	0909	11156	Wed	Russian diplo	Serdolik v2	(AB)
M42	11-12	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana.	FSK 75/500	(AB)
M42	11-12	1300	18726	Thu	UAG: Russian embassy Havana wkg UAL: MFA Moscow.	FSK 75/500	(AB-BER)
M42	18-12	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Message header 11100 70103 38456 18175 04009	FSK 75/500	(AB)
M42	18-12	1415	18232	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	18-12	1418	18232	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	18-12	1421	18232	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	18-12	1424	18232	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	18-12	1427	18232	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	18-12	1430	18232	Thu	Russian diplo. Selcal	Serdolik v2	(AB)
M42	23-12	1051	13961	Tue	Russian diplo	Serdolik v2	(AB/linkz)
M42	24-12	0842	12186	Wed	Russian diplo. Selcal	Serdolik v2	(AB)
M42	24-12	0843	12199	Wed	Russian diplo	Serdolik v2	(AB)
M42	25-12	1300	16156	Thu	UAL: MFA Moscow wkg UAG: Russian embassy Havana. Message header 11100 70103 95184 25178 04009	FSK 75/500	(AB)
M42	26-12	0734	11156	Fri	Russian diplo. Selcal	Serdolik v2	(AB)
M42	26-12	0736	11156	Fri	Russian diplo. Selcal	Serdolik v2	(AB)
M42	26-12	0737	11158	Fri	Russian diplo. Very short message	Serdolik v2	(AB)
M42	26-12	0737	17537	Fri	Russian diplo	Serdolik v2	(AB)
M42	26-12	0747	11158	Fri	Russian diplo	Serdolik v2	(AB/RO)
M42	26-12	0909	14501	Fri	Russian diplo	MFSK-66	(AB)
M42	26-12	0922	11471	Fri	Russian diplo	MFSK-66	(AB)

M42b	1-12	0800	12121	Mon	Russian intel/diplo. SX3H clg F5KA without succes, ask F5KA to QSY 05219 and connects on that frequency	CW	(TJ)
M42b	3-12	----	6767	Wed	Russian intel/diplo. RIGN wkg RWKP: rwkp de rign qsa3 qsa? zzc cfm nil qru r622 2038 k nil sk	CW	(TJ)
M42b	3-12	0712	4755	Wed	Unid, prob Russian intel. Headers like .. 1 ? 326 39 9135999999989 91 35 98999999999 3 ...	FSK 50/500	(TJ)
M42b	3-12	0800	12121	Wed	Russian diplo/intel. OJ8K clg 5NT8 who do not respond	CW	(TJ)
M42b	5-12	----	6905	Fri	Russian diplo/intel. IMTA wkg W19P: wl9p wl9p wl9p de imta imta k. qtc1 zzc zvp ok slv r634 1254 k. nil sk	CW	(TJ)
M42b	6-12	1254	6867	Sat	Russian diplo/intel. WL9P wkg IMTA on 6905 kHz, passing msg 639 100 6 1244 2721 with =50= and =100= separators	FSK 50/500	(TJ)
M42b	10-12	1019	13455	Wed	KFUJ RTHZLQPCAUJ RKFUDQPTHZ OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO (repeated)	FSK 50/500	(AB)
M42b	11-12	0800	12121	Thu	Russian intel/diplo, GIB9 clg KA9M: QSY 67000 at 0804z after failed attempt to link up	CW	(TJ)
M42b	21-12	0800	12121	Sun	Russian intel/diplo. YH4Z msg 464 100 21 0800 4321 = to 1EZP	FSK 50/500	(TJ)
M42b	24-12	1225	18434	Wed	KFUJ RTHZLQPCAUJ RTHZLQPKS GMOUAYPJCKZ OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO (repeated)	FSK 50/500	(AB)
M42b	24-12	1229	15652	Wed	KFUJ RTHZLQPCAUJ RTHZLQPKS GMOUAYPJCKZ OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO (repeated)	FSK 50/500	(AB)
M42b	24-12	1233	13872	Wed	KFUJ RTHZLQPCAUJ RTHZLQPKS GMOUAYPJCKZ OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO (repeated)	FSK 50/500	(AB)
M42b	26-12	----	3356	Fri	Russian intel/diplo. F1LT wkg LOPR, opchat: QSA NO QSY 66756 (rptd)	CW	(TJ)
M42b	29-12	----	3356	Mon	Russian diplo/intel. FILT wkg LOPR	FSK 50/500	(TJ)
M42b	30-12	0926	8074	Tue	Russian diplo/intel i.p. cfm nil qru? k ... sk	FSK 50/500 + CW	(TJ)
M89	3-12	1818	3374	Wed	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	3-12	1820	4860	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	3-12	1820	6840	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	3-12	1826	4610	Wed	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	3-12	1828	4357	Wed	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	3-12	1843	4805	Wed	i.p.	CW	(JPL)
M89	3-12	1852	6256	Wed	i.p. NR 339 CK 30 78 1204 0200 RMKS SSN TO .MMM =	CW	(JPL)
M89	3-12	1856	6255	Wed	i.p.	CW	(JPL)
M89	3-12	1919	5586.5	Wed	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	3-12	1920	4860	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	3-12	1920	6840	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	4-12	1112	4357	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	4-12	1112	5742	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	4-12	1113	3374	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	4-12	1120	4860	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	4-12	1120	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	4-12	1214	5566	Thu	i.p.	CW	(JPL)

M89	4-12	1536	3612	Thu	i.p.	CW	(JPL)
M89	4-12	1545	4610	Thu	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	4-12	1600	6268	Thu	i.p.	CW	(JPL)
M89	4-12	1612	5784	Thu	i.p.	CW	(JPL)
M89	4-12	1620	4860	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	4-12	1620	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	4-12	2256	8224.5	Thu	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M = (new freq)	CW	(JPL)
M89	5-12	1755	3374	Fri	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	5-12	1755	4357	Fri	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	5-12	1755	5742	Fri	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	5-12	1757	4610	Fri	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	5-12	1802	5878	Fri	i.p. RMKS 4333 TO 4623 =	CW	(JPL)
M89	5-12	1820	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	5-12	1820	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	5-12	1825	4485	Fri	i.p.	CW	(JPL)
M89	6-12	1811	3374	Sat	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	6-12	1811	4357	Sat	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	6-12	1817	4610	Sat	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	6-12	1820	4860	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6-12	1820	6840	Sat	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	6-12	1840	4458.5	Sat	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M = (new freq)	CW	(JPL)
M89	7-12	2119	3374	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	7-12	2119	4357	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	7-12	2120	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	7-12	2120	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	7-12	2128	4610	Sun	V 9GWQ (x3) DE J2PX (x2)	CW	(JPL)
M89	7-12	2132	4458.5	Sun	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	7-12	2150	4306	Sun	i.p. NR 4120 CK 121 89 1208 0430 RMKS 5570 TO 5222 =	CW	(JPL)
M89	8-12	1738	3374	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	8-12	1738	4357	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	8-12	2320	6840	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	8-12	2337	6785	Mon	i.p.	CW	(JPL)
M89	9-12	1018	3374	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	9-12	1018	4357	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	9-12	1020	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	9-12	1020	8290	Tue	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	9-12	1035	7778	Tue	i.p. TO 1888 =	CW	(JPL)
M89	9-12	1108	6754	Tue	i.p. F NR .../EX = ../.. AR QSY TO 11 VVV	CW	(JPL)
M89	9-12	1118	5786	Tue	i.p.	CW	(JPL)
M89	9-12	1857	4610	Tue	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	9-12	1905	4458.5	Tue	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	9-12	1918	7768	Tue	Y3JI DE N6WX (Repeated)	CW	(JPL)

M89	11-12	1720	4680	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	11-12	1720	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	11-12	1725	3374	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	11-12	1725	4357	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	11-12	1729	4610	Thu	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	11-12	1736	4458.5	Thu	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	16-12	1618	4610	Tue	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	16-12	1624	4357	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	16-12	1624	5742	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	16-12	1628	4458.5	Tue	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	16-12	1629	4268	Tue	i.p.	CW	(JPL)
M89	16-12	1632	4788	Tue	i.p.	CW	(JPL)
M89	18-12	1246	4357	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	18-12	1246	5742	Thu	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	18-12	1253	4610	Thu	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	18-12	1302	5642	Thu	i.p.	CW	(JPL)
M89	18-12	1305	5740	Thu	i.p.	CW	(JPL)
M89	18-12	1318	5461	Thu	i.p.	CW	(JPL)
M89	18-12	1720	4860	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	18-12	1722	4433	Thu	i.p.	CW	(JPL)
M89	18-12	1726	4458.5	Thu	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	18-12	1728	4610	Thu	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	18-12	7120	6840	Thu	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	19-12	1218	4357	Fri	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	19-12	1218	5742	Fri	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	19-12	1220	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	19-12	1220	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	19-12	1228	4610	Fri	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	19-12	1230	5036	Fri	i.p.	CW	(JPL)
M89	19-12	1233	5357	Fri	i.p.	CW	(JPL)
M89	19-12	1237	6198	Fri	i.p.	CW	(JPL)
M89	19-12	1255	4486	Fri	i.p.	CW	(JPL)
M89	19-12	1257	4445	Fri	i.p. F NR 001/EX 2057 BT 1315/A3BD AR K	CW	(JPL)
M89	19-12	1304	4458.5	Fri	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	19-12	1420	4860	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	19-12	1420	6840	Fri	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	19-12	1430	4720	Fri	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	19-12	1430	5150	Fri	VVV WNF (x3) DE FXM (X2) (R5) QSA ? K	CW	(JPL)
M89	19-12	1725	3833	Fri	i.p. SVC BT 423/XZ 185/4648/01/14/11/X985/COMM/4198 AR	CW	(JPL)
M89	19-12	1802	5672	Fri	Y3JI DE N6WX rptd	CW	(JPL)
M89	22-12	1208	3827	Mon	i.p.	CW	(JPL)
M89	22-12	1214	4325	Mon	i.p.	CW	(JPL)

M89	22-12	1216	4357	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	22-12	1216	5742	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	22-12	1219	4610	Mon	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	22-12	1220	4860	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	22-12	1220	6840	Mon	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	22-12	1229	4716	Mon	i.p. F NR .../EX msg - Too weak to copy)	CW	(JPL)
M89	22-12	1252	7593	Mon	i.p.	CW	(JPL)
M89	22-12	1632	4357	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	22-12	1632	5742	Mon	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	22-12	1635	4610	Mon	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	22-12	1758	5200	Mon	i.p. NR 57 CK 47 =	CW	(JPL)
M89	22-12	1813	4138	Mon	i.p.	CW	(JPL)
M89	23-12	1309	5187	Tue	i.p. F NR 82/EX 0800 RMKS 88 193 ... (Faded out)	CW	(JPL)
M89	23-12	1659	4610	Tue	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	23-12	1702	4458.5	Tue	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	23-12	1720	4860	Tue	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	23-12	1720	6840	Tue	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	24-12	1212	4357	Wed	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	24-12	1213	4610	Wed	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	24-12	1215	4475	Wed	i.p.	CW	(JPL)
M89	24-12	1215	5088	Wed	i.p. RMKS 1830 3648 TO 3888 =	CW	(JPL)
M89	24-12	1220	6840	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	24-12	1225	5501	Wed	i.p. 1820 RMKS GP2F TO LPPA 2O 994B5 NR 012	CW	(JPL)
M89	24-12	1239	6789	Wed	i.p.	CW	(JPL)
M89	24-12	1245	5441	Wed	i.p.	CW	(JPL)
M89	24-12	1245	5441	Wed	i.p. F NR 3851/EX 2040 RMKS 0002 TO 0080 = CA/MD AR	CW	(JPL)
M89	24-12	1254	4770	Wed	i.p.	CW	(JPL)
M89	24-12	1820	4860	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	24-12	1820	6840	Wed	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	26-12	1811	4357	Fri	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	27-12	1730	3374	Sat	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	27-12	1730	4357	Sat	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	27-12	1736	4610	Sat	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	27-12	1738	4458.5	Sat	i.p. ABCDEFGHIJKLMNOPQRSTUVWXYZ TAU34567DN III AS VA M =	CW	(JPL)
M89	27-12	1800	4039	Sat	i.p.	CW	(JPL)
M89	28-12	0052	9949	Sun	i.p. NR CK 95 49 1230 0852 RMKS 4033 TO 7339 =	CW	(JPL)
M89	28-12	1157	4357	Sun	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	28-12	1200	4610	Sun	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	28-12	1210	5449	Sun	i.p.	CW	(JPL)
M89	28-12	1400	4200	Sun	i.p. NR 9998 45 4 09 09 0 (Silent)	CW	(JPL)
M89	28-12	1403	4783	Sun	i.p. RMKS 3388 TO 3306 =	CW	(JPL)
M89	28-12	1406	5112	Sun	i.p.	CW	(JPL)

M89	28-12	1620	4860	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	28-12	1620	6840	Sun	V Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW	(JPL)
M89	29-12	1625	4328	Mon	i.p. NR 350 CK 139 18 1230 00.5 RMKS 9849 TO 9520 =	CW	(JPL)
M89	29-12	1707	5394	Mon	i.p. Q and Z signals - 7IIP R K	CW	(JPL)
M89	29-12	2332	6516	Mon	i.p. Off at 2336z - Appears to be a broadcast	CW	(JPL)
M89	30-12	0042	9392	Tue	XS24 i.p. NR 1171 CK 121 35 1230 0701 = //4245 kHz	CW	(JPL)
M89	30-12	0047	8191	Tue	i.p.	CW	(JPL)
M89	30-12	1313	3586	Tue	i.p.	CW	(JPL)
M89	30-12	1323	4357	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M89	30-12	1610	3854	Tue	i.p.	CW	(JPL)
M89	30-12	1618	4610	Tue	V PD4N (x3) DE WY7H (x2)	CW	(JPL)
M89	30-12	1811	4357	Tue	V 3JWV (x3) DE QH4P DE PO3F QSA? K	CW	(JPL)
M95	2-12	1104	6557	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-12	1104	11475	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	2-12	1149	4542	Tue	V BNGC DE XS30 NR 1218 CK 690 35 1202 1613 = //6876 kHz	CW	(JPL)
M95	2-12	1149	6876	Tue	V BNGC DE XS30 NR 1218 CK 690 35 1202 1613 = //4542 kHz	CW	(JPL)
M95	2-12	1205	4156	Tue	i.p. //9042 kHz	CW	(JPL)
M95	2-12	1205	9042	Tue	i.p. //4156 kHz	CW	(JPL)
M95	3-12	1828	3903	Wed	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	3-12	1828	6886	Wed	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	3-12	1832	3374	Wed	V WCJJ (x3) DE HBDD (x2) = 280/0435/9876/04/63/6866/046/B AR	CW	(JPL)
M95	3-12	1906	4357	Wed	V WCJJ (x3) DE HBDD (x2) = 280/0021/4555/044/63/6889/B	CW	(JPL)
M95	4-12	1055	4230	Thu	i.p.	CW	(JPL)
M95	4-12	1114	6557	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	4-12	1144	4542	Thu	V BNGC DE XS30 NR 1225 CK 54313 35 1204 15.. = //6876 kHz	CW	(JPL)
M95	4-12	1144	6876	Thu	V BNGC DE XS30 NR 1225 CK 54313 35 1204 15.. = //4542 kHz	CW	(JPL)
M95	4-12	1155	4156	Thu	NR 059 CK 44 35 1204 1517 = NR 08 CK 196 35 1204 1610 = //9042 kHz	CW	(JPL)
M95	4-12	1155	9042	Thu	NR 059 CK 44 35 1204 1517 = NR 08 CK 196 35 1204 1610 = //4356 kHz	CW	(JPL)
M95	4-12	2323	6886	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	4-12	2325	4225	Thu	BNEC (X3) DE XS24 (X2) NR 1096 CK 101 35 1205 0703 ... = //9383 kHz	CW	(JPL)
M95	4-12	2325	9392	Thu	BNEC (X3) DE XS24 (X2) NR 1096 CK 101 35 1205 0703 ... = //4225 kHz	CW	(JPL)
M95	7-12	2130	3903	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	7-12	2130	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	8-12	1740	3903	Mon	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Japan) JPL MON	CW	(JPL)
M95	8-12	1740	6886	Mon	V WCJJ (x3) DE HBDD (x2) M95 (Remote tuner Japan) JPL MON	CW	(JPL)
M95	8-12	2329	4225	Mon	V BNEC DE XS24 NR 1108 CK 120 35 1209 0704 = //9392 kHz	CW	(JPL)
M95	8-12	2329	9392	Mon	V BNEC DE XS24 NR 1108 CK 120 35 1209 0704 = //4225 kHz	CW	(JPL)
M95	8-12	2348	4156	Mon	NR 02 CK 26 49 1208 1748 = NR 063 CK 18 35 1209 0607 = NR 068 CK 17 35 1209 0635 = NR 17 CK 065 35 1209 0648 = //9042 kHz	CW	(JPL)
M95	8-12	2348	9042	Mon	NR 02 CK 26 49 1208 1748 = NR 063 CK 18 35 1209 0607 = NR 068 CK 17 35 1209 0635 = NR 17 CK 065 35 1209 0648 = //4156 kHz	CW	(JPL)
M95	9-12	0010	4542	Tue	V BNGC DE XS30 NR 1243 CK 239 35 1209 0657 = //6876 kHz	CW	(JPL)

M95	9-12	0010	6876	Tue	V BNGC DE XS30 NR 1243 CK 239 35 1209 0657 = //4542 kHz	CW	(JPL)
M95	9-12	1026	6557	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	9-12	1026	11475	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	9-12	1042	7777	Tue	i.p. CQ DE I3IY NR 31028/CCK CK 99 24 1202 09 RMKS CQ =	CW	(JPL)
M95	9-12	1148	4542	Tue	i.p. V BNGC DE XS30 NR 1246 CK 31 35 1209 15 = NR 1248 CK 600 35 1209 1604 = //6876 kHz	CW	(JPL)
M95	9-12	1148	6876	Tue	i.p. V BNGC DE XS30 NR 1246 CK 31 35 1209 15 = NR 1248 CK 600 35 1209 1604 = //4542 kHz	CW	(JPL)
M95	9-12	1157	4156	Tue	NR 28 CK 083 35 1209 1448 = NR 069 CK 30 35 1209 1530 = NR 065 CK 22 35 1209 1558 = //9042 kHz	CW	(JPL)
M95	9-12	1157	9042	Tue	NR 28 CK 083 35 1209 1448 = NR 069 CK 30 35 1209 1530 = NR 065 CK 22 35 1209 1558 = //4156 kHz	CW	(JPL)
M95	9-12	1854	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	11-12	1727	3903	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	11-12	1727	6886	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	16-12	1626	3903	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	16-12	1626	6886	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	18-12	1240	6886	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	18-12	1240	6886	Thu	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	19-12	1214	4156	Fri	NR 03 CK 23 35 1219 1634 = //9042 kHz	CW	(JPL)
M95	19-12	1214	9042	Fri	NR 03 CK 23 35 1219 1634 = //4156 kHz	CW	(JPL)
M95	19-12	1226	6557	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	19-12	1226	11475	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	19-12	1250	3903	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	19-12	1250	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	21-12	1128	11475	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	21-12	1128	11475	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	21-12	1147	4542	Sun	V BNGC DE XS30 NR 1299 CK 615 35 1222 1632 = (Only copied one of the msgs) //6876 kHz	CW	(JPL)
M95	21-12	1147	6876	Sun	V BNGC DE XS30 NR 1299 CK 615 35 1222 1632 = (Only copied one of the msgs) //4542 kHz	CW	(JPL)
M95	21-12	1153	4156	Sun	NR 03 CK 28 35 1222 1400 = NR 095 CK 60 35 1222 1457 = NR 44 CK 180 35 1222 1523 = //9042 kHz	CW	(JPL)
M95	21-12	1153	9042	Sun	NR 03 CK 28 35 1222 1400 = NR 095 CK 60 35 1222 1457 = NR 44 CK 180 35 1222 1523 = //4156 kHz	CW	(JPL)
M95	21-12	1208	4658	Sun	i.p. NR ../CCK CK 398 15 1222 1. 30 RMKS 3886 TO 2821 = (Very weak)	CW	(JPL)
M95	21-12	1247	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	21-12	1644	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	23-12	0819	11475	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(TJ)
M95	23-12	1300	4612	Tue	i.p.	CW	(JPL)
M95	23-12	1305	4357	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)
M95	23-12	1305	5742	Tue	V 3JWV (x3) DE QH4P (x2)	CW	(JPL)

M95	23-12	1309	5187	Tue	i.p.	CW	(JPL)
M95	23-12	1319	11475	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	23-12	1323	6886	Tue	i.p. NR 8128 CK 51 85 1223 2130 RMKS 7814 TO 7819 =	CW	(JPL)
M95	23-12	1332	7600	Tue	i.p.	CW	(JPL)
M95	23-12	1656	6886	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	23-12	1714	5423	Tue	i.p. NR 116/CCK CK ... 1223 RMKS 0987 TO 0371 TO 0647 TO A717 K	CW	(JPL)
M95	24-12	1806	6886	Wed	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	26-12	1809	6886	Fri	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	27-12	0726	11475	Sat	V WCJJ (x3) DE HBDD	CW	(TJ)
M95	27-12	1733	6886	Sat	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	28-12	1144	4542	Sun	V BNGC DE XS30 NR 1327 CK 453 35 1228 1609 = //6876 kHz	CW	(JPL)
M95	28-12	1144	6876	Sun	V BNGC DE XS30 NR 1327 CK 453 35 1228 1609 = //4542 kHz	CW	(JPL)
M95	28-12	1151	4156	Sun	NR 008 CK 59 35 1228 1515 = //9042 kHz	CW	(JPL)
M95	28-12	1151	9042	Sun	NR 008 CK 59 35 1228 1515 = //4156 kHz	CW	(JPL)
M95	28-12	1159	11475	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	28-12	1604	5232	Sun	i.p. NR 152/CCK CK 36 51 1229 010. RMKS 4579 TO ..48 TO = (Very weak - faded out)	CW	(JPL)
M95	28-12	1619	6886	Sun	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
M95	29-12	2321	4225	Mon	V BNEC DE XS24 NR 1171 CK 121 35 1230 0701 = //9392 kHz	CW	(JPL)
M95	29-12	2321	9392	Mon	V BNEC DE XS24 NR 1171 CK 121 35 1230 0701 = //4225 kHz	CW	(JPL)
M95	30-12	0009	6876	Tue	V BNGC DE XS30 NR 1325 CK 189 35 1230 0638 = //4542 kHz	CW	(JPL)
M95	30-12	1645	6886	Tue	V WCJJ (x3) DE HBDD (x2)	CW	(JPL)
NB	15-12	2000	6830	Mon	Unid a.k.a. New Buzzer	USB	(AB)
NB	15-12	2000	7520	Mon	Unid a.k.a. New Buzzer	USB	(AB)
NB	15-12	2000	7769	Mon	Unid a.k.a. New Buzzer	USB	(AB)
NB	16-12	2037	6830	Tue	Unid a.k.a. New Buzzer	USB	(AB)
NB	16-12	2037	7520	Tue	Unid a.k.a. New Buzzer	USB	(AB)
NB	16-12	2037	7769	Tue	Unid a.k.a. New Buzzer	USB	(AB)
NB	18-12	2036	6830	Thu	Unid a.k.a. New Buzzer	USB	(AB)
NB	18-12	2036	7520	Thu	Unid a.k.a. New Buzzer	USB	(AB)
NB	18-12	2036	7769	Thu	Unid a.k.a. New Buzzer	USB	(AB)
NB	19-12	1728	7589	Fri	Unid a.k.a. New Buzzer	USB	(AB)
NB	19-12	1728	8049	Fri	Unid a.k.a. New Buzzer	USB	(AB)
NB	19-12	1728	8644	Fri	Unid a.k.a. New Buzzer	USB	(AB)
NB	19-12	2123	6830	Fri	Unid a.k.a. New Buzzer	USB	(AB)
NB	19-12	2123	7520	Fri	Unid a.k.a. New Buzzer	USB	(AB)
NB	19-12	2123	7769	Fri	Unid a.k.a. New Buzzer	USB	(AB)
NB	21-12	1500	6595	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	21-12	1500	6920	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	21-12	1500	7350	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	23-12	2049	7520	Tue	Unid a.k.a. New Buzzer	USB	(AB)
NB	23-12	2049	7770	Tue	Unid a.k.a. New Buzzer	USB	(AB)

NB	23-12	2049	8425	Tue	Unid a.k.a. New Buzzer	USB	(AB)
NB	24-12	1846	7520	Wed	Unid a.k.a. New Buzzer	USB	(AB)
NB	24-12	1846	7770	Wed	Unid a.k.a. New Buzzer	USB	(AB)
NB	24-12	1846	8425	Wed	Unid a.k.a. New Buzzer	USB	(AB)
NB	25-12	2109	7520	Thu	Unid a.k.a. New Buzzer	USB	(AB)
NB	25-12	2109	7770	Thu	Unid a.k.a. New Buzzer	USB	(AB)
NB	25-12	2109	8425	Thu	Unid a.k.a. New Buzzer	USB	(AB)
NB	26-12	1712	7520	Fri	Unid a.k.a. New Buzzer	USB	(AB)
NB	26-12	1712	7770	Fri	Unid a.k.a. New Buzzer	USB	(AB)
NB	26-12	1712	8425	Fri	Unid a.k.a. New Buzzer	USB	(AB)
NB	28-12	1825	6780	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	28-12	1825	8049	Sun	Unid station a.k.a. New Buzzer	USB	(AB)
NB	30-12	1921	6780	Tue	Unid a.k.a. New Buzzer	USB	(AB)
NB	30-12	1921	8049	Tue	Unid a.k.a. New Buzzer	USB	(AB)
NB	31-12	2117	6780	Wed	Unid a.k.a. New Buzzer	USB	(AB)
NB	31-12	2117	8049	Wed	Unid a.k.a. New Buzzer	USB	(AB)
P03	1-12	1220	23031	Mon	Polish intel.	PSK	(AB)
P03	1-12	1225	23031	Mon	Polish intel.	PSK	(AB)
P03	2-12	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	2-12	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	2-12	1725	10429	Tue	Polish intel.	PSK	(AB)
P03	2-12	1730	10429	Tue	Polish intel.	PSK	(AB)
P03	3-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	3-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	4-12	0430	6252	Thu	No transmission	PSK	(AB)
P03	4-12	0435	6252	Thu	No transmission	PSK	(AB)
P03	4-12	0530	5371	Thu	Polish intel.	PSK	(AB)
P03	4-12	0535	5371	Thu	Polish intel.	PSK	(AB)
P03	4-12	1950	5779	Thu	Polish intel.	PSK	(AB)
P03	4-12	1955	5779	Thu	Polish intel.	PSK	(AB)
P03	5-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	5-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	5-12	1515	17535	Fri	Polish intel.	PSK	(AB)
P03	5-12	1520	17535	Fri	Polish intel.	PSK	(AB)
P03	6-12	1020	5779	Sat	Polish intel.	PSK	(AB)
P03	6-12	1025	5779	Sat	Polish intel.	PSK	(AB)
P03	6-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	6-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	6-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	6-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	7-12	0530	5371	Sun	Polish intel.	PSK	(AB)
P03	7-12	0535	5371	Sun	Polish intel.	PSK	(AB)

P03	7-12	1020	5779	Sun	Polish intel.	PSK	(AB)
P03	7-12	1025	5779	Sun	Polish intel.	PSK	(AB)
P03	7-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	7-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	7-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	7-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	7-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	7-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	7-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	7-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	7-12	1725	10429	Sun	Polish intel.	PSK	(AB)
P03	7-12	1730	10429	Sun	Polish intel.	PSK	(AB)
P03	7-12	1950	5779	Sun	Polish intel.	PSK	(AB)
P03	7-12	1955	5779	Sun	Polish intel.	PSK	(AB)
P03	8-12	1220	23031	Mon	Polish intel.	PSK	(AB)
P03	8-12	1225	23031	Mon	Polish intel.	PSK	(AB)
P03	9-12	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	9-12	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	9-12	1725	10429	Tue	Polish intel.	PSK	(AB)
P03	9-12	1730	10429	Tue	Polish intel.	PSK	(AB)
P03	10-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	10-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	11-12	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	11-12	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	11-12	1950	5779	Thu	Polish intel.	PSK	(AB)
P03	11-12	1955	5779	Thu	Polish intel.	PSK	(AB)
P03	12-12	0530	5371	Fri	Polish intel.	PSK	(AB)
P03	12-12	0535	5371	Fri	Polish intel.	PSK	(AB)
P03	12-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	12-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	12-12	1515	17535	Fri	Polish intel.	PSK	(AB)
P03	12-12	1520	17535	Fri	Polish intel.	PSK	(AB)
P03	13-12	1020	5779	Sat	Polish intel.	PSK	(AB)
P03	13-12	1025	5779	Sat	Polish intel.	PSK	(AB)
P03	13-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	13-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	13-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	13-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	14-12	0530	5371	Sun	Polish intel.	PSK	(AB)
P03	14-12	0535	5371	Sun	Polish intel.	PSK	(AB)
P03	14-12	1020	5779	Sun	Polish intel.	PSK	(AB)
P03	14-12	1025	5779	Sun	Polish intel.	PSK	(AB)

P03	14-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	14-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	14-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	14-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	14-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	14-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	14-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	14-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	14-12	1725	10429	Sun	Polish intel.	PSK	(AB)
P03	14-12	1730	10429	Sun	Polish intel.	PSK	(AB)
P03	14-12	1950	5779	Sun	Polish intel.	PSK	(AB)
P03	14-12	1955	5779	Sun	Polish intel.	PSK	(AB)
P03	15-12	1220	23031	Mon	Polish intel.	PSK	(AB)
P03	15-12	1225	23031	Mon	Polish intel.	PSK	(AB)
P03	16-12	0430	6252	Tue	Polish intel.	PSK	(TM)
P03	16-12	0435	6252	Tue	Polish intel.	PSK	(TM)
P03	16-12	1725	10429	Tue	Polish intel.	PSK	(AB)
P03	16-12	1730	10429	Tue	Polish intel.	PSK	(AB)
P03	17-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	17-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	18-12	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	18-12	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	18-12	1950	5779	Thu	Polish intel.	PSK	(AB)
P03	18-12	1955	5779	Thu	Polish intel.	PSK	(AB)
P03	19-12	0530	5371	Fri	Polish intel.	PSK	(AB)
P03	19-12	0535	5371	Fri	Polish intel.	PSK	(AB)
P03	19-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	19-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	19-12	1515	17535	Fri	Polish intel.	PSK	(AB)
P03	19-12	1520	17535	Fri	Polish intel.	PSK	(AB)
P03	20-12	1020	5779	Sat	Polish intel.	PSK	(AB)
P03	20-12	1025	5779	Sat	Polish intel.	PSK	(AB)
P03	20-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	20-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	20-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	20-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	21-12	0530	5371	Sun	Polish intel.	PSK	(AB)
P03	21-12	0535	5371	Sun	Polish intel.	PSK	(AB)
P03	21-12	1020	5779	Sun	Polish intel.	PSK	(AB)
P03	21-12	1025	5779	Sun	Polish intel.	PSK	(AB)
P03	21-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	21-12	1105	6433	Sun	Polish intel.	PSK	(AB)

P03	21-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	21-12	1225	23031	Sun	Polish intel.	PSK	(AB)
P03	21-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	21-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	21-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	21-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	21-12	1725	10429	Sun	Polish intel.	PSK	(AB)
P03	21-12	1730	10429	Sun	Polish intel.	PSK	(AB)
P03	21-12	1950	5779	Sun	Polish intel.	PSK	(AB)
P03	21-12	1955	5779	Sun	Polish intel.	PSK	(AB)
P03	22-12	1220	23031	Mon	Polish intel.	PSK	(AB)
P03	22-12	1225	23031	Mon	Polish intel.	PSK	(AB)
P03	23-12	0430	6252	Tue	Polish intel.	PSK	(TM)
P03	23-12	0435	6252	Tue	Polish intel.	PSK	(TM)
P03	23-12	1725	10429	Tue	Polish intel.	PSK	(AB)
P03	23-12	1730	10429	Tue	Polish intel.	PSK	(AB)
P03	24-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	24-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03	25-12	0430	6252	Thu	Polish intel.	PSK	(AB)
P03	25-12	0435	6252	Thu	Polish intel.	PSK	(AB)
P03	25-12	1950	5779	Thu	Polish intel.	PSK	(AB)
P03	25-12	1955	5779	Thu	Polish intel.	PSK	(AB)
P03	26-12	0530	5371	Fri	Polish intel.	PSK	(AB)
P03	26-12	0535	5371	Fri	Polish intel.	PSK	(AB)
P03	26-12	1100	6433	Fri	Polish intel.	PSK	(AB)
P03	26-12	1105	6433	Fri	Polish intel.	PSK	(AB)
P03	26-12	1515	17535	Fri	Polish intel.	PSK	(AB)
P03	26-12	1520	17535	Fri	Polish intel.	PSK	(AB)
P03	27-12	1020	5779	Sat	Polish intel.	PSK	(AB)
P03	27-12	1025	5779	Sat	Polish intel.	PSK	(AB)
P03	27-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	27-12	1245	7469	Sat	Polish intel.	PSK	(AB)
P03	27-12	1310	6524	Sat	Polish intel.	PSK	(AB)
P03	27-12	1315	6524	Sat	Polish intel.	PSK	(AB)
P03	28-12	0530	5371	Sun	Polish intel.	PSK	(AB)
P03	28-12	0535	5371	Sun	Polish intel.	PSK	(AB)
P03	28-12	1020	5779	Sun	Polish intel.	PSK	(AB)
P03	28-12	1025	5779	Sun	Polish intel.	PSK	(AB)
P03	28-12	1100	6433	Sun	Polish intel.	PSK	(AB)
P03	28-12	1105	6433	Sun	Polish intel.	PSK	(AB)
P03	28-12	1220	23031	Sun	Polish intel.	PSK	(AB)
P03	28-12	1225	23031	Sun	Polish intel.	PSK	(AB)

P03	28-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	28-12	1245	7469	Sun	Polish intel.	PSK	(AB)
P03	28-12	1515	17535	Sun	Polish intel.	PSK	(AB)
P03	28-12	1520	17535	Sun	Polish intel.	PSK	(AB)
P03	28-12	1725	10429	Sun	Polish intel.	PSK	(AB)
P03	28-12	1730	10429	Sun	Polish intel.	PSK	(AB)
P03	28-12	1950	5779	Sun	Polish intel.	PSK	(AB)
P03	28-12	1955	5779	Sun	Polish intel.	PSK	(AB)
P03	29-12	1220	23031	Mon	Polish intel.	PSK	(AB)
P03	29-12	1225	23031	Mon	Polish intel.	PSK	(AB)
P03	30-12	0430	6252	Tue	Polish intel.	PSK	(AB)
P03	30-12	0435	6252	Tue	Polish intel.	PSK	(AB)
P03	30-12	1725	10429	Tue	Polish intel.	PSK	(AB)
P03	30-12	1730	10429	Tue	Polish intel.	PSK	(AB)
P03	31-12	1310	6524	Wed	Polish intel.	PSK	(AB)
P03	31-12	1315	6524	Wed	Polish intel.	PSK	(AB)
P03g	2-12	0635	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	2-12	0640	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	2-12	1100	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	2-12	1105	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	2-12	1230	18168	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	2-12	1235	18168	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	3-12	1100	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	3-12	1105	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	3-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	3-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	4-12	0635	25060	Thu	No transmission	BPSK 50Bd/464bp	(AB)
P03g	4-12	0640	25060	Thu	No transmission	BPSK 50Bd/464bp	(AB)
P03g	5-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	5-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-12	0635	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-12	0640	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-12	1100	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-12	1105	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-12	1230	18168	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	9-12	1235	18168	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	10-12	1100	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	10-12	1105	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	10-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	10-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	11-12	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	11-12	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)

P03g	12-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	12-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-12	0635	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-12	0640	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-12	1100	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-12	1105	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-12	1230	18168	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	16-12	1235	18168	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	17-12	1100	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	17-12	1105	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	17-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	17-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	18-12	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	18-12	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	19-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	19-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-12	0635	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-12	0640	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-12	1100	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-12	1105	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-12	1230	18168	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	23-12	1235	18168	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	24-12	1100	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	24-12	1105	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	24-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	24-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	25-12	0635	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	25-12	0640	25060	Thu	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	26-12	1315	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	26-12	1320	13046	Fri	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-12	0635	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-12	0640	25060	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-12	1100	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-12	1105	12089	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-12	1230	18168	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	30-12	1235	18168	Tue	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	31-12	1100	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	31-12	1105	12089	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	31-12	1315	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03g	31-12	1320	13046	Wed	Polish intel.	BPSK 50Bd/464bp	(AB)
P03i	2-12	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	2-12	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)

P03i	2-12	1500	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	2-12	1505	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	4-12	0725	9052	Thu	No transmission	BPSK 100Bd/512bp	(AB)
P03i	4-12	0730	9052	Thu	No transmission	BPSK 100Bd/512bp	(AB)
P03i	4-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	4-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	5-12	1500	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	5-12	1505	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	9-12	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	9-12	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	9-12	1500	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	9-12	1505	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	9-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	9-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	11-12	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	11-12	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	11-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	11-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	12-12	1500	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	12-12	1505	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	16-12	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	16-12	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	16-12	1500	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	16-12	1505	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	16-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	16-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	18-12	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	18-12	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	18-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	18-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	19-12	1500	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	19-12	1505	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	23-12	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	23-12	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	23-12	1500	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	23-12	1505	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	23-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	23-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	25-12	0725	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	25-12	0730	9052	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	25-12	1800	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	25-12	1805	6480	Thu	Polish intel.	BPSK 100Bd/512bp	(AB)

P03i	26-12	1500	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	26-12	1505	8800	Fri	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	30-12	0725	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	30-12	0730	9052	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	30-12	1500	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	30-12	1505	8800	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	30-12	1800	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03i	30-12	1805	6480	Tue	Polish intel.	BPSK 100Bd/512bp	(AB)
P03j	1-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	1-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	4-12	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	4-12	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	8-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	8-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	11-12	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	11-12	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	15-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	15-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	18-12	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	18-12	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	22-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	22-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	25-12	1830	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	25-12	1835	6906	Thu	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	29-12	1830	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03j	29-12	1835	6906	Mon	Polish intel.	QPSK 100Bd/504bp	(AB)
P03k	3-12	1730	7504	Wed	No transmission	BPSK 100Bd/480bp	(AB)
P03k	3-12	1735	7504	Wed	No transmission	BPSK 100Bd/480bp	(AB)
P03k	6-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-12	1730	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	6-12	1735	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	7-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-12	1730	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	10-12	1735	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)

P03k	13-12	1730	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	13-12	1735	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	14-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-12	1730	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	17-12	1735	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-12	1730	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	20-12	1735	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	21-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-12	1730	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	24-12	1735	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-12	0630	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-12	0635	6252	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-12	1230	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-12	1235	18168	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-12	1730	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	27-12	1735	7504	Sat	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-12	0630	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	28-12	0635	6252	Sun	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-12	1730	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03k	31-12	1735	7504	Wed	Polish intel.	BPSK 100Bd/480bp	(AB)
P03l	1-12	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	1-12	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	1-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	1-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	3-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	3-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-12	1200	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	4-12	1205	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	5-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-12	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-12	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	8-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	9-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03l	9-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)

P03I	10-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	10-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	10-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	10-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-12	1200	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	11-12	1205	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	12-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-12	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-12	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	15-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	16-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	16-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	17-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-12	1200	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	18-12	1205	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	19-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-12	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-12	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	22-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	23-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	23-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	24-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-12	1200	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	25-12	1205	7504	Thu	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-12	1345	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	26-12	1350	6940	Fri	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-12	0735	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-12	0740	8800	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-12	1200	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	29-12	1205	7504	Mon	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	30-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	30-12	0800	14656	Tue	Polish intel.	QPSK 100Bd/464bp	(AB)

P03I	31-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	31-12	0800	14656	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	31-12	1345	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P03I	31-12	1350	6940	Wed	Polish intel.	QPSK 100Bd/464bp	(AB)
P07	3-12	1500	6986	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-12	1510	6774	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-12	1520	5853	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-12	1530	5336	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-12	1540	5082	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	3-12	1550	4609	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	7-12	1550	4609	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-12	1500	6986	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-12	1510	6774	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-12	1520	5853	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-12	1530	5336	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-12	1540	5082	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	10-12	1550	4609	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	14-12	1550	4609	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1500	6986	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1510	6774	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1520	5853	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1530	5336	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1540	5082	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	17-12	1550	4609	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	21-12	1550	4609	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1500	6986	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1510	6774	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)

P07	24-12	1520	5853	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1530	5336	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1540	5082	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	24-12	1550	4609	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-12	1500	6986	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-12	1510	6774	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-12	1520	5853	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-12	1530	5336	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-12	1540	5082	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	28-12	1550	4609	Sun	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1500	6986	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1510	6774	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1520	5853	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1530	5336	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1540	5082	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
P07	31-12	1550	4609	Wed	Russian intel.	8xQSPK/62.5Bd/125Hz+250Bd BPSK	(AB)
Q26	2-12	1135	4542	Tue	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	2-12	1135	6876	Tue	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-12	1042	4225	Thu	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-12	1131	4542	Thu	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-12	1131	6876	Thu	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-12	2308	4432.5	Thu	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-12	2325	4225	Thu	Message //9392 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	4-12	2325	9392	Thu	Message //4225 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	8-12	2325	4225	Mon	Message //9392 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	8-12	2325	9392	Mon	Message //4225 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	8-12	2343	4156	Mon	Message //9042 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	8-12	2343	9042	Mon	Message //4156 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	9-12	0001	4542	Tue	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	9-12	0001	6876	Tue	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	9-12	1136	4542	Tue	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	9-12	1136	6876	Tue	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	19-12	1132	4245	Fri	Message //6876 kHz Did not go into M95	4+4 QPSK 75/1000 LSB	(JPL)
Q26	19-12	1132	6876	Fri	Message //7245 kHz Did not go into M95	4+4 QPSK 75/1000 LSB	(JPL)
Q26	19-12	1245	6431	Fri	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	21-12	1131	4542	Sun	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	21-12	1131	6876	Sun	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	28-12	1142	4542	Sun	Message //6876 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	28-12	1142	6876	Sun	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	29-12	1700	5394.5	Mon	Message	4+4 QPSK 75/1000 LSB	(JPL)
Q26	29-12	2320	4225	Mon	Message //9392 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	29-12	2320	9392	Mon	Message //4225 kHz	4+4 QPSK 75/1000 LSB	(JPL)

Q26	30-12	0001	4542	Tue	Message //	4+4 QPSK 75/1000 LSB	(JPL)
Q26	30-12	0001	6876	Tue	Message //4542 kHz	4+4 QPSK 75/1000 LSB	(JPL)
Q26	30-12	1332	6278	Tue	Chinese voice traffic followed by Q26: QSL?QSL?QSL?QSL?QSL?QSL?QSQSL? YXYXYXYX HR TRY LL 4936 2742 4538 1178 ... and PSK bursts	4+4 QPSK 75/1000 LSB	(JPL)
S06	1-12	0400	11616	Mon	480 135 60 62140 48517 10721 ... 57756 52837 19789 135 60 00000	USB	(Subilo)
S06	1-12	0420	9322	Mon	480 135 60 62140 48517 10721 ... 57756 52837 19789 135 60 00000	USB	(Subilo)
S06	2-12	0400	11616	Tue	480 135 60 62140 48517 10721 ... 57756 52837 19789 135 60 00000	USB	(Subilo)
S06	2-12	0420	9322	Tue	480 135 60 62140 48517 10721 ... 57756 52837 19789 135 60 00000	USB	(Subilo)
S06	3-12	0400	11616	Wed	480 513 34 76754 72086 35555... 34546 47392 70253 513 34 480 679 22 75392 84971 05642 ... 19482 28491 77561 679 22 00000	USB	(Subilo)
S06	3-12	0420	9322	Wed	480 513 34 76754 72086 35555... 34546 47392 70253 513 34 480 679 22 75392 84971 05642 ... 19482 28491 77561 679 22 00000	USB	(Subilo)
S06	4-12	0400	11616	Thu	480 513 34 76754 72086 35555... 34546 47392 70253 513 34 480 679 22 75392 84971 05642 ... 19482 28491 77561 679 22 00000	USB	(Subilo)
S06	4-12	0420	9322	Thu	480 513 34 76754 72086 35555... 34546 47392 70253 513 34 480 679 22 75392 84971 05642 ... 19482 28491 77561 679 22 00000	USB	(Subilo)
S06	5-12	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	5-12	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	5-12	1900	7923	Fri	842 842 842 00000	USB	(AB/HFD)
S06	5-12	2000	5943	Fri	842 842 842 00000	USB	(AB/HFD)
S06	8-12	0400	11616	Mon	480 726 51 36555 53201 59131 ... 96968 08727 57562 726 51 00000	USB	(Subilo)
S06	8-12	0420	9322	Mon	480 726 51 36555 53201 59131 ... 96968 08727 57562 726 51 00000	USB	(Subilo)
S06	9-12	0400	11616	Tue	480 726 51 36555 53201 59131 ... 96968 08727 57562 726 51 00000	USB	(Subilo)
S06	9-12	0420	9322	Tue	480 726 51 36555 53201 59131 ... 96968 08727 57562 726 51 00000	USB	(Subilo)
S06	10-12	0400	11616	Wed	480 913 27 62254 31981 31468 ... 41798 38282 99794 913 27 480 256 33 56368 08132 15393 ... 34809 97826 44726 256 33 00000	USB	(Subilo)
S06	10-12	0420	9322	Wed	480 913 27 62254 31981 31468 ... 41798 38282 99794 913 27 480 256 33 56368 08132 15393 ... 34809 97826 44726 256 33 00000	USB	(Subilo)
S06	11-12	0400	11616	Thu	480 913 27 62254 31981 31468 ... 41798 38282 99794 913 27 480 256 33 56368 08132 15393 ... 34809 97826 44726 256 33 00000	USB	(Subilo)
S06	11-12	0420	9322	Thu	480 913 27 62254 31981 31468 ... 41798 38282 99794 913 27 480 256 33 56368 08132 15393 ... 34809 97826 44726 256 33 00000	USB	(Subilo)
S06	12-12	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	12-12	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	15-12	0400	11616	Mon	480 791 52 81900 26943 04764 ... 26313 94349 61332 791 52 00000	USB	(Subilo)
S06	15-12	0420	9322	Mon	480 791 52 81900 26943 04764 ... 26313 94349 61332 791 52 00000	USB	(Subilo)
S06	16-12	0400	11616	Tue	480 791 52 81900 26943 04764 ... 26313 94349 61332 791 52 00000	USB	(Subilo)
S06	16-12	0420	9322	Tue	480 791 52 81900 26943 04764 ... 26313 94349 61332 791 52 00000	USB	(Subilo)
S06	17-12	0400	11616	Wed	480 526 32 16679 92858 39675 ... 66427 17020 24128 526 32 480 971 25 38511 14789 56352 ... 66590 08768 12165 971 25 00000	USB	(Subilo)
S06	17-12	0420	9322	Wed	480 526 32 16679 92858 39675 ... 66427 17020 24128 526 32 480 971 25 38511 14789 56352 ... 66590 08768 12165 971 25 00000	USB	(Subilo)

S06	17-12	1052	10755	Wed	1000Hz test tone then 975 once	USB	(PY)
S06	17-12	1053	10755	Wed	975 742 34 16309 33827 95091 ... 49843 91476 78421 742 34 975 964 34 58249 31582 24766 ... 22547 89347 26410 964 34 00000	USB/LSB	(PY)
S06	18-12	0400	11616	Thu	480 526 32 16679 92858 39675 ... 66427 17020 24128 526 32 480 971 25 38511 14789 56352 ... 66590 08768 12165 971 25 00000	USB	(Subilo)
S06	18-12	0420	9322	Thu	480 526 32 16679 92858 39675 ... 66427 17020 24128 526 32 480 971 25 38511 14789 56352 ... 66590 08768 12165 971 25 00000	USB	(Subilo)
S06	18-12	0652	10755	Thu	975 438 52 87539 76810 17544 ... 39355 73709 29265 458 52 00000	USB/LSB	(AB/PY)
S06	18-12	0652	10755	Thu	1000Hz test tone then 975 975 975 975	USB	(PY)
S06	19-12	0400	11616	Fri	480 480 480 00000	USB	(Subilo)
S06	19-12	0420	9322	Fri	480 480 480 00000	USB	(Subilo)
S06	19-12	1900	7923	Fri	842 842 842 00000	USB	(AB)
S06	19-12	2000	5943	Fri	842 842 842 00000	USB	(AB)
S06	22-12	0400	11616	Mon	480 362 57 33774 78711 61634 ... 98294 41048 31226 362 57 00000	USB	(Subilo)
S06	22-12	0420	9322	Mon	480 362 57 33774 78711 61634 ... 98294 41048 31226 362 57 00000	USB	(Subilo)
S06	23-12	0400	11616	Tue	480 362 57 33774 78711 61634 ... 98294 41048 31226 362 57 00000	USB	(Subilo)
S06	23-12	0420	9322	Tue	480 362 57 33774 78711 61634 ... 98294 41048 31226 362 57 00000	USB	(Subilo)
S06	24-12	0400	11616	Wed	480 517 21 39222 16520 94401 ... 23393 69592 29990 517 21 480 926 34 08620 22660 56788 ... 13127 82787 06493 926 34 00000	USB	(Subilo)
S06	24-12	0420	9322	Wed	480 517 21 39222 16520 94401 ... 23393 69592 29990 517 21 480 926 34 08620 22660 56788 ... 13127 82787 06493 926 34 00000	USB	(Subilo)
S06	25-12	0400	11616	Thu	480 517 21 39222 16520 94401 ... 23393 69592 29990 517 21 480 926 34 08620 22660 56788 ... 13127 82787 06493 926 34 00000	USB	(Subilo)
S06	25-12	0420	9322	Thu	480 517 21 39222 16520 94401 ... 23393 69592 29990 517 21 480 926 34 08620 22660 56788 ... 13127 82787 06493 926 34 00000	USB	(Subilo)
S06c	2-12	1645	12124	Tue	11186 (R4m)	USB	(AB)
S06c	3-12	1235	6779	Wed	11808 (R4m)	USB	(PY)
S06c	3-12	1235	6779	Wed	11808 (R4m) (test tones at 1226z)	USB	(PY)
S06c	3-12	1245	4819	Wed	11808 (R4m) (test tones at 1240z)	USB	(PY)
S06c	3-12	1245	4819	Wed	11808 (R4m)	USB	(PY)
S06c	16-12	1220	6779	Tue	[LSB] 11808 (R20s) 1180 [LSB -> USB] 8 11808 (R1m20s) 11 [USB -> LSB] 808 11 [LSB -> USB] 808 11808 (R3m50s)	USB/LSB	(PY)
S06c	16-12	1222	6779	Tue	[LSB] 11808 (R20s) 1180 [LSB -> USB] 8 11808 (R1m20s) 11 [USB -> LSB] 808 11 [LSB -> USB] 808 11808 (R3m50s) (test tones in LSB at 1220z)	LSB/USB	(PY)
S06c	16-12	1228	6779	Tue	1000Hz test tones. At 1235z [USB] 11808 (R1m30s) 1 [USB -> LSB] 1 [LSB -> USB] 808 11808 (R2m25s)	USB/LSB	(PY)
S06c	16-12	1235	6779	Tue	[USB] 11808 (R1m30s) 1 [USB -> LSB] 1 [LSB -> USB] 808 11808 (R2m25s) (test tones in USB at 1228z)	USB/LSB	(PY)
S06c	16-12	1240	4819	Tue	1000Hz test tones. AT 1245z [USB] 11808 (R2m) 11 [USB -> LSB] 808 11808 (R20s) 1180 [LSB -> USB] 8 11808 (R1m15s) 1 [USB -> LSB] 1808 11808 11808	USB/LSB	(PY)
S06c	16-12	1245	4819	Tue	[USB] 11808 (R2m) 11 [USB -> LSB] 808 11808 (R20s) 1180 [LSB -> USB] 8 11808 (R1m15s) 1 [USB -> LSB] 1808 11808 11808 (test tones in USB at 1240z)	USB/LSB	(PY)

S06c	16-12	1422	19389	Tue	11002 (R4m)	USB	(PY)
S06c	16-12	1422	19389	Tue	11002 (R4m)	USB	(PY)
S06c	16-12	1435	19389	Tue	11002 (R4m)	USB	(PY)
S06c	16-12	1435	19389	Tue	11002 (R4m)	USB	(PY)
S06c	16-12	1445	17456	Tue	11002 (R4m) (test tones at 1440z). ID 2 would correspond to the Russian embassy in Dar es Salaam.	USB	(PY)
S06c	16-12	1445	17456	Tue	11002 (R4m) (1000Hz test tones at 1440z)	USB	(PY)
S11a	1-12	0700	9050	Mon	478/33 Vnimanaye 44926 12886 33441 ... 77044 65818 56145 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	1-12	0915	6252	Mon	480/35 Vnimanaye 61540 78746 02976 ... 20624 48087 58940 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
S11a	2-12	1400	10448	Tue	429/00 Konets	USB	(AB)
S11a	3-12	0725	19515	Wed	381/00 Konets	USB	(AB)
S11a	3-12	1850	11486	Wed	No transmission	USB	(AB)
S11a	4-12	0445	11559	Thu	No transmission	USB	(AB)
S11a	4-12	0700	9050	Thu	No transmission	USB	(AB)
S11a	5-12	0725	19515	Fri	385/00 Konets	USB	(AB)
S11a	5-12	0915	6252	Fri	487/00 Konets	USB	(AB)
S11a	5-12	1400	10448	Fri	422/00 Konets	USB	(AB)
S11a	6-12	0830	5371	Sat	373/00 Konets	USB	(AB)
S11a	6-12	1850	11486	Sat	284/00 Konets	USB	(AB)
S11a	7-12	0830	5371	Sun	377/00 Konets	USB	(AB)
S11a	8-12	0700	9050	Mon	478/00 Konets	USB	(AB)
S11a	8-12	0915	6252	Mon	487/00 Konets	USB	(AB)
S11a	9-12	1400	10448	Tue	426/00 Konets	USB	(AB)
S11a	10-12	0725	19515	Wed	389/00 Konets	USB	(AB-POL)
S11a	10-12	1850	11486	Wed	284/00 Konets	USB	(AB)
S11a	11-12	0700	9050	Thu	479/00 Konets	USB	(AB)
S11a	12-12	0725	19515	Fri	383/00 Konets	USB	(AB)
S11a	12-12	0915	6252	Fri	487/00 Konets	USB	(AB)
S11a	12-12	1400	10448	Fri	421/00 Konets	USB	(AB)
S11a	13-12	0830	5371	Sat	379/00 Konets	USB	(AB)
S11a	13-12	1850	11486	Sat	286/00 Konets	USB	(AB)
S11a	14-12	0830	5371	Sun	379/00 Konets	USB	(AB)
S11a	15-12	0700	9050	Mon	471/00 Konets	USB	(AB)
S11a	15-12	0915	6252	Mon	487/00 Konets	USB	(AB)
S11a	16-12	1400	10448	Tue	426/35 Vnimanaye 39568 20796 47076 ... 51931 74555 61688 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	17-12	0725	19515	Wed	383/00 Konets	USB	(AB-POL)
S11a	17-12	1850	11486	Wed	Null message. Too weak to copy	USB	(AB)
S11a	18-12	0700	9050	Thu	471/00 Konets	USB	(AB)
S11a	19-12	0725	19515	Fri	382/00 Konets	USB	(AB)
S11a	19-12	0915	6252	Fri	480/00 Konets	USB	(AB)

S11a	19-12	1400	10448	Fri	426/35 Vnimanaye 39568 20796 47076 ... 51931 74555 61688 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	20-12	0830	5371	Sat	371/00 Konets	USB	(AB)
S11a	21-12	0830	5371	Sun	377/00 Konets	USB	(AB)
S11a	22-12	0700	9050	Mon	475/00 Konets	USB	(AB)
S11a	22-12	0915	6252	Mon	480/00 Konets	USB	(AB)
S11a	23-12	1400	10448	Tue	426/00 Konets	USB	(AB)
S11a	24-12	0725	19515	Wed	389/00 Konets	USB	(AB-POL)
S11a	24-12	1850	11486	Wed	281/00 Konets	USB	(AB)
S11a	25-12	0700	9050	Thu	477/00 Konets	USB	(AB)
S11a	26-12	0725	19515	Fri	382/00 Konets	USB	(AB/Lac)
S11a	26-12	0915	6252	Fri	482/00 Konets	USB	(AB)
S11a	26-12	1400	10448	Fri	422/00 Konets	USB	(AB/Lac)
S11a	27-12	0830	5371	Sat	373/40 Vnimanaye 69447 35183 19722 ... 90906 70703 99793 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	27-12	1850	11486	Sat	288/00 Konets	USB	(AB)
S11a	28-12	0830	5371	Sun	373/40 Vnimanaye 69447 35183 19722 ... 90906 70703 99793 Vnimanaye (msg rptd) Konets	USB	(AB)
S11a	29-12	0700	9050	Mon	478/00 Konets	USB	(AB/Lac)
S11a	29-12	0915	6252	Mon	483/00 Konets	USB	(AB/Lac)
S11a	30-12	0445	11559	Tue	Null message. Too weak to copy	USB	(TM)
S11a	30-12	1400	10448	Tue	427/00 Konets	USB	(AB)
S11a	31-12	0725	19515	Wed	383/00 Konets	USB	(AB-POL/Lac)
S11a	31-12	1850	11486	Wed	287/35 Vnimanaye 11443 27593 78848 ... 11209 39924 71353 Vnimanaye (msg rptd) Konets	USB	(AB/Lac)
TUN	15-12	1143	11111	Mon	STAT151: MFA Tunis clg STAT24: Tunisian embassy Rome	Mil-STD-188-141A/USB	(AB)
TUN	15-12	1243	12140	Mon	STAT24: Tunisian embassy Rome sounding	Mil-STD-188-141A/USB	(AB)
TUN	16-12	0643	16285	Tue	STAT16: Unid Tunisian embassy clg STAT155: MFA Tunis	Mil-STD-188-141A	(AB)
TUN	16-12	0847	18295	Tue	STAT155: MFA Tunis clg STAT13: Tunisian embassy Cairo	Mil-STD-188-141A	(AB)
TUN	16-12	0902	18295	Tue	STAT12: Tunisian embassy Ankara clg STAT151: MFA Tunis	Mil-STD-188-141A	(AB)
UM04	7-12	0800	4375	Sun	VVV VVV PROMRCh = 07 12 = 1000 0940 1000 1180 1700 ... 0800 0680 0730 0880 1300 = AR	CW	(AB-GRC)
UM04	9-12	0800	4735	Tue	VVV VVV PROMRCh = 09 12 = 1000 0930 0990 1070 1700 ... 0800 0670 0710 0860 1280 = AR	CW	(AB-GRC)
UM04	10-12	0800	4735	Wed	VVV VVV PROMRCh = 10 12 = 1000 0950 1000 1180 1710 ... 0800 0670 0710 0860 1280 = AR	CW	(AB-GRC)
UM04	11-12	0805	4735	Thu	i.p. 0410 0420 0470 0640 0600 0360 0380 0430 0610 0800 0660 0710 0860 1270 = AR	CW	(AB-GRC)
UM04	12-12	0800	4735	Fri	VVV VVV PROMRCh = 12 12 = 1000 0940 1000 1180 1710 ... 0800 0660 0710 0860 1260 = AR	CW	(AB-GRC)
UM04	13-12	0800	4735	Sat	VVV VVV PROMRCh = 13 12 = 1000 0960 1010 1190 1730 ... 0660 0700 0850 1260 = AR	CW	(AB-GRC)
UM04	14-12	0800	4375	Sun	VVV VVV PROMRCh = 14 12 = 1000 0960 1020 1200 1730 ... 0800 0660 0700 0850 1250 = AR	CW	(AB-GRC)
UM04	16-12	0803	4735	Tue	VVV VVV PROMRCh = 16 12 = 1000 0920 0980 1170 1690 ... 0800 0640 0690 0830 1220 = AR	CW	(AB-GRC)
UM04	17-12	0801	4735	Wed	VVV VVV PROMRCh = 17 12 = 1000 0950 1000 1190 1720 ... 0800 0640 0680 0830 1220 = AR	CW	(AB-HNG)
UM04	18-12	0800	4735	Thu	VVV VVV PROMRCh = 18 12 = 1000 0940 1000 1190 1720 ... 0800 0640 0680 0820 1210 = AR	CW	(AB-GRC)
UM04	19-12	0800	4735	Fri	VVV VVV PROMRCh = 19 12 = 1000 0940 1000 1190 1720 ... 0800 0640 0680 0820 1210 = AR	CW	(AB-GRC)
UM04	21-12	0800	4375	Sun	VVV VVV PROMRCh = 21 12 = 1000 0940 1000 1180 1720 ... 0800 0620 0660 0800 1180 = AR	CW	(AB-GRC)
UM04	23-12	0802	4735	Tue	VVV VVV PROMRCh = 23 12 = 1000 0930 0980 1170 1700 ... 0800 0610 0650 0790 1170 = AR	CW	(AB-GRC)
UM04	24-12	0801	4735	Wed	VVV VVV PROMRCh = 24 12 = 1000 0920 0980 1160 1700 ... 0800 0610 0650 0780 1160 = AR	CW	(AB-HNG)
UM04	25-12	0800	4735	Thu	VVV VVV PROMRCh = 25 12 = 1000 0920 0970 1160 1680 ... 0800 0600 0640 0780 1150 = AR	CW	(AB-GRC)
UM04	26-12	0800	4735	Fri	VVV VVV PROMRCh = 26 12 = 1000 0920 0970 1150 1680 ... 0800 0590 0640 0770 1140 = AR	CW	(AB-GRC)

UM04	27-12	0800	4375	Sat	VVV VVV PROMRCh = 27 12 = 1000 0910 0970 1150 1680 ... 0800 0590 0630 0770 1140 = AR	CW	(AB-GRC)
UM04	28-12	0800	4375	Sun	VVV VVV PROMRCh = 28 12 = 1000 0910 0970 1150 1680 ... 0800 0590 0630 0770 1140 = AR	CW	(AB-GRC)
UM04	30-12	0800	4735	Tue	VVV VVV PROMRCh = 30 12 = 1000 0940 1000 1180 1700 ... 0800 0590 0630 0770 1130 = AR	CW	(AB-GRC)
UM04	31-12	0759	4735	Wed	VVV VVV PROMRCh = 31 12 = 1000 0920 0970 1160 1680 ... 0800 0590 0630 0760 1130 = AR	CW	(AB-HNG)
UM05	29-12	0800	4735	Mon	VVV VVV PROMRCh = 29 12 = 1000 0910 0970 1160 1680 ... 0800 0590 0630 0760 1130 = A (no R)	CW	(AB-GRC)
UM10	11-12	1719	4320	Thu	10-mins net: JZZN	CW	(JPL)
UM10	18-12	1249	4310	Thu	10-mins net: JZZN	CW	(JPL)
UM10	18-12	1714	3975	Thu	10-mins net: VI4T	CW	(JPL)
UM10	18-12	1719	3531	Thu	10-mins net: JZZN //4310 kHz	CW	(JPL)
UM10	18-12	1719	4310	Thu	10-mins net: JZZN //3531 kHz	CW	(JPL)
UM10	19-12	1745	3531	Fri	10-mins net: JZZN	CW	(JPL)
UM10	19-12	1745	4310	Fri	10-mins net: JZZN	CW	(JPL)
UM10	19-12	1806	3250	Fri	10-mins net: V14T //3975 kHz	CW	(JPL)
UM10	19-12	1806	3975	Fri	10-mins net: V14T //3250 kHz	CW	(JPL)
UM10	21-12	1212	4310	Sun	10-mins net: JZZN	CW	(JPL)
UM10	22-12	1722	4310	Mon	10-mins net: JZZN	CW	(JPL)
UM10	22-12	1811	3250	Mon	10-mins net: V14T //3975 kHz	CW	(JPL)
UM10	22-12	1811	3975	Mon	10-mins net: V14T //3250 kHz	CW	(JPL)
UM10	26-12	1718	4310	Fri	10-mins net: JZZN	CW	(JPL)
UM10	26-12	1750	4310	Fri	10-mins net: JZZN	CW	(JPL)
UM10	26-12	1814	3250	Fri	10-mins net: V14T //3975 kHz	CW	(JPL)
UM10	26-12	1814	3975	Fri	10-mins net: V14T //3250 kHz	CW	(JPL)
UM10	27-12	1737	3975	Sat	10-mins net: V14T	CW	(JPL)
UM10	28-12	1744	3531	Sun	10-mins net: JZZN //4310 kHz	CW	(AB-J)
UM10	28-12	1744	4310	Sun	10-mins net: JZZN //3531 kHz	CW	(AB-J)
UM10	28-12	1805	3250	Sun	10-mins net: VI4T //3975 kHz	CW	(AB-J)
UM10	28-12	1805	3975	Sun	10-mins net: VI4T //3250 kHz	CW	(AB-J)
USA	12-12	1253	11168.6	Fri	KAL71 Consulate General Thessaloniki clg KXV53 Unid	Mil-STD-188-141A/USB	(AB)
USA	12-12	1257	11168.6	Fri	KAL71 Consulate General Thessaloniki clg KWX57 US embassy Warsaw	Mil-STD-188-141A/USB	(AB)
USA	12-12	1303	11168.6	Fri	KWV71 US embassy Ankara clg KAL71 Consulate General Thessaloniki	Mil-STD-188-141A/USB	(AB)
USA	12-12	1303	11168.6	Fri	KAL71 Consulate General Thessaloniki clg KWV71 US embassy Ankara	Mil-STD-188-141A/USB	(AB)
USA	12-12	1305	11168.6	Fri	KWZ99 US embassy Athens clg KAL71 Consulate General Thessaloniki	Mil-STD-188-141A/USB	(AB)
USA	12-12	1305	11168.6	Fri	KAL71 Consulate General Thessaloniki clg KWZ99 US embassy Athens	Mil-STD-188-141A/USB	(AB)
V07	7-12	0200	18249	Sun	295 295 295 1 6156 98 6156 98 58326 11722 75800 ... 18699 33173 86770 000 000	USB	(HFD-USA)
V07	7-12	0220	15949	Sun	295 295 295 1 6156 98 6156 98 58326 11722 75800 ... 18699 33173 86770 000 000	USB	(HFD-USA)
V07	7-12	0240	14549	Sun	295 295 295 1 6156 98 6156 98 58326 11722 75800 ... 18699 33173 86770 000 000	USB	(Dan/HFD-USA)
V07	14-12	0240	14549	Sun	295 295 295 1 1669 121 1669 121 61096 16443 10256 ... 86910 73798 56101 000 000	USB	(Dan)
V07	21-12	0240	14549	Sun	295 295 295 1 6546 101 6546 101 96620 49983 31758 ... 78487 57766 07340 000 000	USB	(Dan)
V07	28-12	0220	15949	Sun	295 295 295 000	USB	(Dan)

V26	8-12	2323	4225	Mon	Callup in Chinese voice //9392 kHz	LSB	(JPL)
V26	8-12	2323	9392	Mon	Callup in Chinese voice //4225 kHz	LSB	(JPL)
V26	8-12	2340	4156	Mon	Callup in Chinese voice //9042 kHz	USB	(JPL)
V26	8-12	2340	9042	Mon	Callup in Chinese voice //4156 kHz	LSB	(JPL)
V26	19-12	1239	6431	Fri	Voice callup	LSB	(JPL)
V26	21-12	1130	4542	Sun	Voice callup //6876 kHz	LSB	(JPL)
V26	21-12	1130	6876	Sun	Voice callup //4542	LSB	(JPL)
X--	8-12	1210	18237	Mon	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	8-12	1214	17443	Mon	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	8-12	1217	15937	Mon	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	8-12	1221	14383	Mon	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	8-12	1225	13397	Mon	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	9-12	1313	19346	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	9-12	1320	18544	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	9-12	1450	20997	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	9-12	1453	18923	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	9-12	1457	17425	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	9-12	1501	15623	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	9-12	1505	13392	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	11-12	1300	18648	Thu	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	11-12	1300	19457	Thu	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	11-12	1308	17423	Thu	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	11-12	1312	16172	Thu	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	11-12	1316	15619	Thu	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	11-12	1332	19157	Thu	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	11-12	1338	17518	Thu	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	11-12	1343	15834	Thu	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	16-12	0841	18922	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	16-12	0850	17433	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	16-12	0855	16314	Tue	Russian intel.	MFSK-13/MFSK-21	(AB)
X--	24-12	1432	20368	Wed	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	24-12	1435	19855	Wed	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	24-12	1441	18564	Wed	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	24-12	1445	16256	Wed	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	24-12	1450	15624	Wed	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	26-12	0743	16274	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	26-12	0943	18569	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X--	26-12	0947	16274	Fri	Russian intel.	MFSK-21/MFSK-13	(AB)
X06	2-12	0755	15989	Tue	MFA Moscow clg 125643: Russian embassy Ulaanbaatar	MFSK-6	(RO)
X06	4-12	0809	15973	Thu	MFA Moscow clg 325614: Russian embassy Nairobi	MFSK-6	(Moon)
X06	4-12	0925	16103	Thu	MFA Moscow clg 645321: Russian Consulate General Ho Chi Minh City	MFSK-6	(Moon)
X06	5-12	0922	14570	Fri	MFA Moscow clg 324615: Russian embassy Madrid	MFSK-6	(Moon)

X06	5-12	1014	14824	Fri	MFA Moscow clg 625413: Russian embassy Tel Aviv	MFSK-6	(Moon)
X06	8-12	0808	17466	Mon	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(RO)
X06	8-12	0813	14871	Mon	MFA Moscow clg 156234: Russian embassy Kampala	MFSK-6	(RO)
X06	10-12	0748	18177	Wed	MFA Moscow clg 164253: Russian embassy Addis Ababa	MFSK-6	(AB/Moon)
X06	12-12	0926	10653	Fri	MFA Moscow clg 356412: Russian embassy Berlin	MFSK-6	(Moon)
X06	14-12	1043	15810	Sun	MFA Moscow clg 145632: Russian embassy Algiers	MFSK-6	(AB)
X06	15-12	0830	14377	Mon	MFS Moscow clg 432516: Russian embassy Bern	MFSK-6	(Moon)
X06	16-12	0736	19874	Tue	MFS Moscow clg 125643: Russian embassy Ulaanbaatar	MFSK-6	(Moon)
X06	16-12	0835	17454	Tue	MFS Moscow clg 325614: Russian embassy Nairobi	MFSK-6	(Moon)
X06	16-12	1702	12124	Tue	MFA Moscow clg 246531: Russian embassy Accra	MFSK-6	(AB)
X06	17-12	1135	18280	Wed	MFA Moscow clg 215346: Russian Consulate General Mumbai	MFSK-6	(AB)
X06	17-12	1222	20374	Wed	MFS Moscow clg 231654: Russian embassy Abuja	MFSK-6	(Moon)
X06	19-12	0759	16244	Fri	666534 (off 0802z)	MFSK-6	(AB)
X06	19-12	0809	16244	Fri	666534 (off after 25sec)	MFSK-6	(AB)
X06	19-12	0815	16241	Fri	666111 (off 0817z)	MFSK-6	(AB)
X06	19-12	0821	16244	Fri	616161 (off 0822z)	MFSK-6	(AB)
X06	19-12	0831	16241	Fri	616161 (off 0832z)	MFSK-6	(AB)
X06	21-12	0726	14595	Sun	MFA Moscow clg 452163: Russian embassy Kabul	MFSK-6	(Moon)
X06	23-12	0942	20813	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(Moon)
X06	23-12	1043	17470	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai	MFSK-6	(AB/Moon)
X06	23-12	1055	14970	Tue	MFA Moscow clg 216354: Russian Consulate General Chennai. Off at 1101z, back at 1104z	MFSK-6	(AB/Moon/linkz)
X06	23-12	1132	14675	Tue	MFA Moscow clg 612534: Russian embassy Ashgabat	MFSK-6	(AB/linkz)
X06	24-12	0747	14655	Wed	MFA Moscow clg 164253: Russian embassy Addis Ababa	MFSK-6	(AB)
X06	24-12	0847	13369	Wed	MFA Moscow clg 412356: Russian embassy Budapest	MFSK-6	(Moon)
X06	24-12	0902	14812	Wed	MFA Moscow clg 263145: Russian embassy Prague	MFSK-6	(Moon)
X06	26-12	0742	13427	Fri	MFA Moscow clg 341265: Unid Russian embassy	MFSK-6	(AB/RO)
X06	26-12	0916	12177	Fri	MFA Moscow clg 356412: Russian embassy Berlin	MFSK-6	(AB)
X06	28-12	0805	16060	Sun	MFA Moscow clg 261453: Russian embassy Cairo	MFSK-6	(Moon)
X06	31-12	0736	9326	Wed	111666 (off 0759z)	MFSK-6 AM	(AB)
X06	31-12	0905	9320	Wed	111666 (off 0908z)	MFSK-6 AM	(AB)
X06	31-12	1146	12320	Wed	111111 (off 1208z)	CW	(AB)
X06	31-12	1208	9320	Wed	111666 (off 1216z)	MFSK-6 AM	(AB)
X06	31-12	1236	12320	Wed	111666 (off 1246z)	MFSK-6 AM	(AB)
X06	31-12	1313	12320	Wed	111111 (off 1331z)	CW	(AB)
X06	31-12	1332	12320	Wed	666111 (off 1334z)	MFSK-6 AM	(AB)
X06	31-12	1417	8320	Wed	111666 (off 1443z)	MFSK-6 AM	(AB)
X06b	22-12	0736	16250	Mon	666644 (ended at 0907z)	MFSK-6	(AB/HFD)
XPA1	3-12	1310	13465	Wed	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB/HFD)
XPA1	3-12	1330	12165	Wed	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB/HFD)
XPA1	3-12	1350	10265	Wed	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB)
XPA1	5-12	1310	13465	Fri	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB)

XPA1	5-12	1330	12165	Fri	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB)
XPA1	5-12	1350	10265	Fri	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB)
XPA1	10-12	1310	13465	Wed	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB)
XPA1	10-12	1330	12165	Wed	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB)
XPA1	10-12	1350	10265	Wed	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB)
XPA1	12-12	1310	13465	Fri	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB)
XPA1	12-12	1330	12165	Fri	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB)
XPA1	12-12	1350	10265	Fri	412 412 412 1 00875 00206 38832 ... 80251 72313 20755	MFSK-20/10Bd	(AB)
XPA1	17-12	1310	13465	Wed	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	17-12	1330	12165	Wed	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	17-12	1350	10265	Wed	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	19-12	1310	13465	Fri	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	19-12	1330	12165	Fri	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	19-12	1350	10265	Fri	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	24-12	1310	13465	Wed	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	24-12	1330	12165	Wed	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	24-12	1350	10265	Wed	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	26-12	1310	13465	Fri	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	26-12	1330	12165	Fri	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	26-12	1350	10265	Fri	412 412 412 1 09115 00156 69113 ... 15508 44529 30557	MFSK-20/10Bd	(AB)
XPA1	31-12	1310	13465	Wed	412 412 412 000 08926 00001 00000 40662	MFSK-20/10Bd	(AB)
XPA1	31-12	1330	12165	Wed	412 412 412 000 08926 00001 00000 40662	MFSK-20/10Bd	(AB)
XPA1	31-12	1350	10265	Wed	412 412 412 000 08926 00001 00000 40662	MFSK-20/10Bd	(AB)
XPA2	1-12	0800	11493	Mon	06630 00001 00000 34261	MFSK-16/29Bd	(AB/HFD)
XPA2	1-12	0820	13393	Mon	06630 00001 00000 34261	MFSK-16/29Bd	(AB/HFD)
XPA2	1-12	0840	13993	Mon	06630 00001 00000 34261	MFSK-16/29Bd	(AB/HFD)
XPA2	1-12	0930	17431	Mon	01755 00001 00000 37256	MFSK-16/20Bd	(AB/HFD)
XPA2	1-12	0950	16146	Mon	01755 00001 00000 37256	MFSK-16/20Bd	(AB/HFD)
XPA2	1-12	1600	6984	Mon	04089 00146 31413 ... 84676 79920 22753	MFSK-16/20Bd	(AB)
XPA2	1-12	1620	5884	Mon	04089 00146 31413 ... 84676 79920 22753	MFSK-16/20Bd	(AB)
XPA2	1-12	1640	4784	Mon	04089 00146 31413 ... 84676 79920 22753	MFSK-16/20Bd	(AB)
XPA2	2-12	1100	9265	Tue	03288 00233 21230 ... 39269 71471 10260	MFSK-16/20Bd	(AB/HFD)
XPA2	2-12	1120	8165	Tue	03288 00233 21230 ... 39269 71471 10260	MFSK-16/20Bd	(AB/HFD)
XPA2	2-12	1140	7665	Tue	03288 00233 21230 ... 39269 71471 10260	MFSK-16/20Bd	(AB/HFD)
XPA2	2-12	1700	10197	Tue	09977 00196 71668 ... 82129 16325 13706	MFSK-16/20Bd	(PY/HFD)
XPA2	2-12	1720	9342	Tue	09977 00196 71668 ... 82129 16325 13706	MFSK-16/20Bd	(PY/HFD)
XPA2	2-12	1740	8097	Tue	09977 00196 71668 ... 82129 16325 13706	MFSK-16/20Bd	(PY/HFD)
XPA2	3-12	0800	11493	Wed	03142 00001 00000 32657	MFSK-16/29Bd	(AB)
XPA2	3-12	0820	13393	Wed	03142 00001 00000 32657	MFSK-16/29Bd	(AB)
XPA2	3-12	0840	13993	Wed	03142 00001 00000 32657	MFSK-16/29Bd	(AB)
XPA2	3-12	0910	18391	Wed	06360 00001 00000 32664	MFSK-16/29Bd	(AB)
XPA2	3-12	0930	17431	Wed	06360 00001 00000 32664	MFSK-16/29Bd	(AB)

XPA2	3-12	0950	16146	Wed	06360 00001 00000 32664	MFSK-16/29Bd	(AB)
XPA2	3-12	1100	11579	Wed	07960 00247 53408 ... 69708 88170 21467	MFSK-16/20Bd	(AB)
XPA2	3-12	1120	10979	Wed	07960 00247 53408 ... 69708 88170 21467	MFSK-16/20Bd	(AB)
XPA2	3-12	1140	10279	Wed	07960 00247 53408 ... 69708 88170 21467	MFSK-16/20Bd	(AB)
XPA2	3-12	1200	14841	Wed	00168 00178 61214 ... 61291 96045 63722	MFSK-16/20Bd	(AB/HFD)
XPA2	3-12	1220	16241	Wed	00168 00178 61214 ... 61291 96045 63722	MFSK-16/20Bd	(AB/HFD)
XPA2	3-12	1240	18241	Wed	00168 00178 61214 ... 61291 96045 63722	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	0900	16279	Thu	Message	MFSK-20/10Bd	(HFD)
XPA2	4-12	0920	15914	Thu	Message	MFSK-20/10Bd	(HFD)
XPA2	4-12	0940	14678	Thu	Message	MFSK-20/10Bd	(HFD)
XPA2	4-12	1100	11579	Thu	07960 00247 53408 ... 69708 88170 21467	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	1150	10279	Thu	07960 00247 53408 ... 69708 88170 21467	MFSK-16/20Bd	(AB/HFD)
XPA2	4-12	1700	10197	Thu	09977 00196 71668 ... 82129 16325 13706	MFSK-16/20Bd	(AB)
XPA2	4-12	1720	9342	Thu	09977 00196 71668 ... 82129 16325 13706	MFSK-16/20Bd	(AB)
XPA2	4-12	1740	8097	Thu	09977 00196 71668 ... 82129 16325 13706	MFSK-16/20Bd	(AB)
XPA2	5-12	1100	9265	Fri	03288 00233 21230 ... 39269 71471 10260	MFSK-16/20Bd	(AB)
XPA2	5-12	1120	8165	Fri	03288 00233 21230 ... 39269 71471 10260	MFSK-16/20Bd	(AB)
XPA2	5-12	1140	7665	Fri	03288 00233 21230 ... 39269 71471 10260	MFSK-16/20Bd	(AB)
XPA2	5-12	1200	14841	Fri	00168 00178 61214 ... 61291 96045 63722	MFSK-16/20Bd	(AB)
XPA2	5-12	1220	16241	Fri	00168 00178 61214 ... 61291 96045 63722	MFSK-16/20Bd	(AB)
XPA2	5-12	1240	18241	Fri	00168 00178 61214 ... 61291 96045 63722	MFSK-16/20Bd	(AB)
XPA2	6-12	0900	16279	Sat	05281 00001 00000 32665	MFSK-16/20Bd	(AB)
XPA2	6-12	0920	15914	Sat	05281 00001 00000 32665	MFSK-16/20Bd	(AB)
XPA2	6-12	0940	14678	Sat	05281 00001 00000 32665	MFSK-16/20Bd	(AB)
XPA2	6-12	1600	6984	Sat	04089 00146 31413 ... 84676 79920 22753	MFSK-16/20Bd	(AB/HFD)
XPA2	6-12	1620	5884	Sat	04089 00146 31413 ... 84676 79920 22753	MFSK-16/20Bd	(AB/HFD)
XPA2	6-12	1640	4784	Sat	04089 00146 31413 ... 84676 79920 22753	MFSK-16/20Bd	(AB/HFD)
XPA2	8-12	0800	11493	Mon	07776 00001 00000 37666	MFSK-16/29Bd	(AB)
XPA2	8-12	0820	13393	Mon	07776 00001 00000 37666	MFSK-16/29Bd	(AB)
XPA2	8-12	0840	13993	Mon	07776 00001 00000 37666	MFSK-16/29Bd	(AB)
XPA2	8-12	0910	18391	Mon	00195 00451 23415 ... 13411 91318 03622	MFSK-16/29Bd	(AB)
XPA2	8-12	0930	17431	Mon	00195 00451 23415 ... 13411 91318 03622	MFSK-16/29Bd	(AB)
XPA2	8-12	0950	16146	Mon	00195 00451 23415 ... 13411 91318 03622	MFSK-16/29Bd	(AB)
XPA2	8-12	1600	6984	Mon	09967 00001 00000 41267	MFSK-16/20Bd	(AB)
XPA2	8-12	1620	5884	Mon	09967 00001 00000 41267	MFSK-16/20Bd	(AB)
XPA2	8-12	1640	4784	Mon	09967 00001 00000 41267	MFSK-16/20Bd	(AB)
XPA2	9-12	1100	9265	Tue	06026 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	9-12	1120	8165	Tue	06026 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	9-12	1140	7665	Tue	06026 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	9-12	1700	10197	Tue	08208 00001 00000 352000	MFSK-16/20Bd	(AB)
XPA2	9-12	1720	9342	Tue	08208 00001 00000 352000	MFSK-16/20Bd	(AB)
XPA2	9-12	1740	8097	Tue	08208 00001 00000 352000	MFSK-16/20Bd	(AB)

XPA2	10-12	0800	11493	Wed	08594 00001 00000 35671	MFSK-16/29Bd	(AB)
XPA2	10-12	0820	13393	Wed	08594 00001 00000 35671	MFSK-16/29Bd	(AB)
XPA2	10-12	0840	13993	Wed	08594 00001 00000 35671	MFSK-16/29Bd	(AB)
XPA2	10-12	0910	18391	Wed	00195 00451 23415 ... 13411 91318 03622	MFSK-16/29Bd	(AB)
XPA2	10-12	0930	17431	Wed	00195 00451 23415 ... 13411 91318 03622	MFSK-16/29Bd	(AB)
XPA2	10-12	0950	16146	Wed	00195 00451 23415 ... 13411 91318 03622	MFSK-16/29Bd	(AB)
XPA2	10-12	1100	11579	Wed	07629 00400 21824 ... 18422 43643 62647	MFSK-16/20Bd	(AB)
XPA2	10-12	1120	10979	Wed	07629 00400 21824 ... 18422 43643 62647	MFSK-16/20Bd	(AB)
XPA2	10-12	1140	10279	Wed	07629 00400 21824 ... 18422 43643 62647	MFSK-16/20Bd	(AB)
XPA2	10-12	1200	14841	Wed	00239 00120 24165 ... 34838 04276 64001	MFSK-16/20Bd	(AB)
XPA2	10-12	1220	16241	Wed	00239 00120 24165 ... 34838 04276 64001	MFSK-16/20Bd	(AB)
XPA2	10-12	1240	18241	Wed	00239 00120 24165 ... 34838 04276 64001	MFSK-16/20Bd	(AB)
XPA2	11-12	0900	16279	Thu	02218 00001 00000 36253	MFSK-16/20Bd	(AB)
XPA2	11-12	0920	15914	Thu	02218 00001 00000 36253	MFSK-16/20Bd	(AB)
XPA2	11-12	0940	14678	Thu	02218 00001 00000 36253	MFSK-16/20Bd	(AB)
XPA2	11-12	1100	11579	Thu	07629 00400 21824 ... 18422 43643 62647	MFSK-16/20Bd	(AB)
XPA2	11-12	1120	10979	Thu	07629 00400 21824 ... 18422 43643 62647	MFSK-16/20Bd	(AB)
XPA2	11-12	1140	10279	Thu	07629 00400 21824 ... 18422 43643 62647	MFSK-16/20Bd	(AB)
XPA2	11-12	1700	10197	Thu	04352 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	11-12	1720	9342	Thu	04352 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	11-12	1740	8097	Thu	04352 00001 00000 33661	MFSK-16/20Bd	(AB)
XPA2	12-12	1100	9265	Fri	05492 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12-12	1120	8165	Fri	05492 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12-12	1140	7665	Fri	05492 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	12-12	1200	14841	Fri	00239 00120 24165 ... 34838 04276 64001	MFSK-16/20Bd	(AB)
XPA2	12-12	1220	16241	Fri	00239 00120 24165 ... 34838 04276 64001	MFSK-16/20Bd	(AB)
XPA2	12-12	1240	18241	Fri	00239 00120 24165 ... 34838 04276 64001	MFSK-16/20Bd	(AB)
XPA2	13-12	0900	16279	Sat	09325 00001 00000 35263	MFSK-16/20Bd	(AB)
XPA2	13-12	0920	15914	Sat	09325 00001 00000 35263	MFSK-16/20Bd	(AB)
XPA2	13-12	0940	14678	Sat	09325 00001 00000 35263	MFSK-16/20Bd	(AB)
XPA2	13-12	1600	6984	Sat	03197 00001 00000 35264	MFSK-16/20Bd	(AB)
XPA2	13-12	1620	5884	Sat	03197 00001 00000 35264	MFSK-16/20Bd	(AB)
XPA2	13-12	1640	4784	Sat	03197 00001 00000 35264	MFSK-16/20Bd	(AB)
XPA2	15-12	0800	11493	Mon	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	15-12	0820	13393	Mon	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	15-12	0840	13993	Mon	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	15-12	0910	18391	Mon	00584 00376 89709 ... 55574 60472 66347	MFSK-16/29Bd	(AB)
XPA2	15-12	0930	17431	Mon	00584 00376 89709 ... 55574 60472 66347	MFSK-16/29Bd	(AB)
XPA2	15-12	0950	16146	Mon	00584 00376 89709 ... 55574 60472 66347	MFSK-16/29Bd	(AB)
XPA2	15-12	1600	6984	Mon	00470 00196 69998 ... 13855 81953 41766	MFSK-16/20Bd	(AB)
XPA2	15-12	1620	5884	Mon	00470 00196 69998 ... 13855 81953 41766	MFSK-16/20Bd	(AB)
XPA2	15-12	1640	4784	Mon	00470 00196 69998 ... 13855 81953 41766	MFSK-16/20Bd	(AB)

XPA2	16-12	1100	9265	Tue	06276 00396 57432 ... 18133 79417 30430	MFSK-16/20Bd	(AB)
XPA2	16-12	1120	8165	Tue	06276 00396 57432 ... 18133 79417 30430	MFSK-16/20Bd	(AB)
XPA2	16-12	1140	7665	Tue	06276 00396 57432 ... 18133 79417 30430	MFSK-16/20Bd	(AB)
XPA2	16-12	1700	10197	Tue	00897 00237 06605 ... 93496 10074 23753	MFSK-16/20Bd	(AB)
XPA2	16-12	1720	9342	Tue	00897 00237 06605 ... 93496 10074 23753	MFSK-16/20Bd	(AB)
XPA2	16-12	1740	8097	Tue	00897 00237 06605 ... 93496 10074 23753	MFSK-16/20Bd	(AB)
XPA2	17-12	0800	11493	Wed	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	17-12	0820	13393	Wed	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	17-12	0840	13993	Wed	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	17-12	0910	18391	Wed	00584 00376 89709 ... 55574 60472 66347	MFSK-16/29Bd	(AB)
XPA2	17-12	0930	17431	Wed	00584 00376 89709 ... 55574 60472 66347	MFSK-16/29Bd	(AB)
XPA2	17-12	0950	16146	Wed	00584 00376 89709 ... 55574 60472 66347	MFSK-16/29Bd	(AB)
XPA2	17-12	1100	11579	Wed	07696 00001 00000 37270	MFSK-16/20Bd	(AB)
XPA2	17-12	1120	10979	Wed	07696 00001 00000 37270	MFSK-16/20Bd	(AB)
XPA2	17-12	1140	10279	Wed	07696 00001 00000 37270	MFSK-16/20Bd	(AB)
XPA2	17-12	1200	14841	Wed	07509 00087 75135 ... 45431 93857 65705	MFSK-16/20Bd	(AB)
XPA2	17-12	1220	16241	Wed	07509 00087 75135 ... 45431 93857 65705	MFSK-16/20Bd	(AB)
XPA2	17-12	1240	18241	Wed	07509 00087 75135 ... 45431 93857 65705	MFSK-16/20Bd	(AB)
XPA2	18-12	0900	16279	Thu	00299 00690 01664 ... 47686 44566 34321	MFSK-16/20Bd	(AB)
XPA2	18-12	0920	15914	Thu	00299 00690 01664 ... 47686 44566 34321	MFSK-16/20Bd	(AB)
XPA2	18-12	0940	14678	Thu	00299 00690 01664 ... 47686 44566 34321	MFSK-16/20Bd	(AB)
XPA2	18-12	1100	11579	Thu	01081 00001 00000 31661	MFSK-16/20Bd	(AB)
XPA2	18-12	1120	10979	Thu	01081 00001 00000 31661	MFSK-16/20Bd	(AB)
XPA2	18-12	1140	10279	Thu	01081 00001 00000 31661	MFSK-16/20Bd	(AB)
XPA2	18-12	1700	10197	Thu	00897 00237 06605 ... 93496 10074 23753	MFSK-16/20Bd	(AB)
XPA2	18-12	1720	9342	Thu	00897 00237 06605 ... 93496 10074 23753	MFSK-16/20Bd	(AB)
XPA2	18-12	1740	8097	Thu	00897 00237 06605 ... 93496 10074 23753	MFSK-16/20Bd	(AB)
XPA2	19-12	1100	9265	Fri	06276 00396 57432 ... 18133 79417 30430	MFSK-16/20Bd	(AB)
XPA2	19-12	1120	8165	Fri	06276 00396 57432 ... 18133 79417 30430	MFSK-16/20Bd	(AB)
XPA2	19-12	1140	7665	Fri	06276 00396 57432 ... 18133 79417 30430	MFSK-16/20Bd	(AB)
XPA2	19-12	1200	14841	Fri	07509 00087 75135 ... 45431 93857 65705	MFSK-16/20Bd	(AB)
XPA2	19-12	1220	16241	Fri	07509 00087 75135 ... 45431 93857 65705	MFSK-16/20Bd	(AB)
XPA2	19-12	1240	18241	Fri	07509 00087 75135 ... 45431 93857 65705	MFSK-16/20Bd	(AB)
XPA2	20-12	0900	16279	Sat	00299 00690 01664 ... 47686 44566 34321	MFSK-16/20Bd	(AB)
XPA2	20-12	0920	15914	Sat	00299 00690 01664 ... 47686 44566 34321	MFSK-16/20Bd	(AB)
XPA2	20-12	0940	14678	Sat	00299 00690 01664 ... 47686 44566 34321	MFSK-16/20Bd	(AB)
XPA2	20-12	1600	6984	Sat	00470 00196 69998 ... 13855 81953 41766	MFSK-16/20Bd	(AB)
XPA2	20-12	1620	5884	Sat	00470 00196 69998 ... 13855 81953 41766	MFSK-16/20Bd	(AB)
XPA2	20-12	1640	4784	Sat	00470 00196 69998 ... 13855 81953 41766	MFSK-16/20Bd	(AB)
XPA2	22-12	0800	11493	Mon	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	22-12	0820	13393	Mon	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	22-12	0840	13993	Mon	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)

XPA2	22-12	0910	18391	Mon	03448 00001 00000 37257	MFSK-16/29Bd	(AB)
XPA2	22-12	0930	17431	Mon	03448 00001 00000 37257	MFSK-16/29Bd	(AB)
XPA2	22-12	0950	16146	Mon	03448 00001 00000 37257	MFSK-16/29Bd	(AB)
XPA2	22-12	1600	6984	Mon	06560 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	22-12	1620	5884	Mon	06560 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	22-12	1640	4784	Mon	06560 00001 00000 33664	MFSK-16/20Bd	(AB)
XPA2	23-12	1100	9265	Tue	04460 00242 26194 ... 15886 24704 56001	MFSK-16/20Bd	(AB)
XPA2	23-12	1120	8165	Tue	04460 00242 26194 ... 15886 24704 56001	MFSK-16/20Bd	(AB)
XPA2	23-12	1140	7665	Tue	04460 00242 26194 ... 15886 24704 56001	MFSK-16/20Bd	(AB)
XPA2	23-12	1700	10197	Tue	02622 00001 00000 35254	MFSK-16/20Bd	(AB)
XPA2	23-12	1720	9342	Tue	02622 00001 00000 35254	MFSK-16/20Bd	(AB)
XPA2	23-12	1740	8097	Tue	02622 00001 00000 35254	MFSK-16/20Bd	(AB)
XPA2	24-12	0800	11493	Wed	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	24-12	0820	13393	Wed	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	24-12	0840	13993	Wed	00463 00384 31548 ... 55949 10747 41631	MFSK-16/29Bd	(AB)
XPA2	24-12	0910	18391	Wed	07888 00001 00000 41267	MFSK-16/29Bd	(AB)
XPA2	24-12	0930	17431	Wed	07888 00001 00000 41267	MFSK-16/29Bd	(AB)
XPA2	24-12	0950	16146	Wed	07888 00001 00000 41267	MFSK-16/29Bd	(AB)
XPA2	24-12	1100	11579	Wed	00946 00316 29756 ... 79291 16749 02267	MFSK-16/20Bd	(AB)
XPA2	24-12	1120	10979	Wed	00946 00316 29756 ... 79291 16749 02267	MFSK-16/20Bd	(AB)
XPA2	24-12	1140	10279	Wed	00946 00316 29756 ... 79291 16749 02267	MFSK-16/20Bd	(AB)
XPA2	24-12	1200	14841	Wed	00882 00065 06625 ... 06636 56810 70053	MFSK-16/20Bd	(AB)
XPA2	24-12	1220	16241	Wed	00882 00065 06625 ... 06636 56810 70053	MFSK-16/20Bd	(AB)
XPA2	24-12	1240	18241	Wed	00882 00065 06625 ... 06636 56810 70053	MFSK-16/20Bd	(AB)
XPA2	25-12	0900	16279	Thu	08872 00326 30401 ... 94692 62361 52237	MFSK-16/20Bd	(AB)
XPA2	25-12	0920	15914	Thu	08872 00326 30401 ... 94692 62361 52237	MFSK-16/20Bd	(AB)
XPA2	25-12	0940	14678	Thu	08872 00326 30401 ... 94692 62361 52237	MFSK-16/20Bd	(AB)
XPA2	25-12	1100	11579	Thu	00946 00316 29756 ... 79291 16749 02267	MFSK-16/20Bd	(AB)
XPA2	25-12	1120	10979	Thu	00946 00316 29756 ... 79291 16749 02267	MFSK-16/20Bd	(AB)
XPA2	25-12	1140	10279	Thu	00946 00316 29756 ... 79291 16749 02267	MFSK-16/20Bd	(AB)
XPA2	25-12	1700	10197	Thu	06409 00001 00000 37656	MFSK-16/20Bd	(AB)
XPA2	25-12	1720	9342	Thu	06409 00001 00000 37656	MFSK-16/20Bd	(AB)
XPA2	25-12	1740	8097	Thu	06409 00001 00000 37656	MFSK-16/20Bd	(AB)
XPA2	26-12	1100	9265	Fri	04460 00242 26194 ... 15886 24704 56001	MFSK-16/20Bd	(AB)
XPA2	26-12	1120	8165	Fri	04460 00242 26194 ... 15886 24704 56001	MFSK-16/20Bd	(AB)
XPA2	26-12	1140	7665	Fri	04460 00242 26194 ... 15886 24704 56001	MFSK-16/20Bd	(AB)
XPA2	26-12	1200	14841	Fri	00882 00065 06625 ... 06636 56810 70053	MFSK-16/20Bd	(AB)
XPA2	26-12	1220	16241	Fri	00882 00065 06625 ... 06636 56810 70053	MFSK-16/20Bd	(AB)
XPA2	26-12	1240	18241	Fri	00882 00065 06625 ... 06636 56810 70053	MFSK-16/20Bd	(AB)
XPA2	27-12	0900	16279	Sat	08872 00326 30401 ... 94692 62361 52237	MFSK-16/20Bd	(AB)
XPA2	27-12	0920	15914	Sat	08872 00326 30401 ... 94692 62361 52237	MFSK-16/20Bd	(AB)
XPA2	27-12	0940	14678	Sat	08872 00326 30401 ... 94692 62361 52237	MFSK-16/20Bd	(AB)

XPA2	27-12	1600	6984	Sat	03247 00001 00000 35657	MFSK-16/20Bd	(AB)
XPA2	27-12	1620	5884	Sat	03247 00001 00000 35657	MFSK-16/20Bd	(AB)
XPA2	27-12	1640	4784	Sat	03247 00001 00000 35657	MFSK-16/20Bd	(AB)
XPA2	29-12	0800	11493	Mon	00939 00641 83236 ... 03872 53453 64362	MFSK-16/29Bd	(AB)
XPA2	29-12	0820	13393	Mon	00939 00641 83236 ... 03872 53453 64362	MFSK-16/29Bd	(AB)
XPA2	29-12	0840	13993	Mon	00939 00641 83236 ... 03872 53453 64362	MFSK-16/29Bd	(AB)
XPA2	29-12	0910	18391	Mon	07325 00384 19994 ... 75679 35836 23533	MFSK-16/29Bd	(AB)
XPA2	29-12	0930	17431	Mon	07325 00384 19994 ... 75679 35836 23533	MFSK-16/29Bd	(AB)
XPA2	29-12	0950	16146	Mon	07325 00384 19994 ... 75679 35836 23533	MFSK-16/29Bd	(AB)
XPA2	29-12	1600	6984	Mon	00758 00064 59648 ... 77372 58093 25042	MFSK-16/20Bd	(AB)
XPA2	29-12	1620	5884	Mon	00758 00064 59648 ... 77372 58093 25042	MFSK-16/20Bd	(AB)
XPA2	29-12	1640	4784	Mon	00758 00064 59648 ... 77372 58093 25042	MFSK-16/20Bd	(AB)
XPA2	30-12	1100	9265	Tue	03876 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	30-12	1120	8165	Tue	03876 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	30-12	1140	7665	Tue	03876 00001 00000 10140	MFSK-16/20Bd	(AB)
XPA2	30-12	1700	10197	Tue	09723 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	30-12	1720	9342	Tue	09723 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	30-12	1740	8097	Tue	09723 00001 00000 36263	MFSK-16/20Bd	(AB)
XPA2	31-12	0800	11493	Wed	00939 00641 83236 ... 03872 53453 64362	MFSK-16/29Bd	(AB)
XPA2	31-12	0820	13393	Wed	00939 00641 83236 ... 03872 53453 64362	MFSK-16/29Bd	(AB)
XPA2	31-12	0840	13993	Wed	00939 00641 83236 ... 03872 53453 64362	MFSK-16/29Bd	(AB)
XPA2	31-12	0910	18391	Wed	07325 00384 19994 ... 75679 35836 23533	MFSK-16/29Bd	(AB)
XPA2	31-12	0930	17431	Wed	07325 00384 19994 ... 75679 35836 23533	MFSK-16/29Bd	(AB)
XPA2	31-12	0950	16146	Wed	07325 00384 19994 ... 75679 35836 23533	MFSK-16/29Bd	(AB)
XPA2	31-12	1100	11579	Wed	05797 00001 00000 40266	MFSK-16/20Bd	(AB)
XPA2	31-12	1120	10979	Wed	05797 00001 00000 40266	MFSK-16/20Bd	(AB)
XPA2	31-12	1140	10279	Wed	05797 00001 00000 40266	MFSK-16/20Bd	(AB)
XPA2	31-12	1200	14841	Wed	03059 00001 00000 35661	MFSK-16/20Bd	(AB)
XPA2	31-12	1220	16241	Wed	03059 00001 00000 35661	MFSK-16/20Bd	(AB)
XPA2	31-12	1240	18241	Wed	03059 00001 00000 35661	MFSK-16/20Bd	(AB)
XPB1	1-12	0600	19461	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-12	0610	19261	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-12	0620	18261	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-12	0630	16261	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-12	0640	15861	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	1-12	0650	14961	Mon	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	0600	19461	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0610	19261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0620	18261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0630	16261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0640	15861	Tue	Russian intel.	MFSK-16	(AB)
XPB1	2-12	0650	14961	Tue	Russian intel.	MFSK-16	(AB)

XPB1	2-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	2-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB/HFD)
XPB1	5-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
XPB1	5-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
XPB1	8-12	0600	19461	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-12	0610	19261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-12	0620	18261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-12	0630	16261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-12	0640	15861	Mon	Russian intel.	MFSK-16	(AB)
XPB1	8-12	0650	14961	Mon	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0600	19461	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0610	19261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0620	18261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0630	16261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0640	15861	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	0650	14961	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
XPB1	9-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
XPB1	12-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
XPB1	15-12	0600	19461	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	15-12	0610	19261	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	15-12	0620	18261	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	15-12	0630	16261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	15-12	0640	15861	Mon	Russian intel.	MFSK-16	(AB)
XPB1	15-12	0650	14961	Mon	Russian intel.	MFSK-16	(AB)

XPB1	16-12	0600	19461	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	0610	19261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	0620	18261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	0630	16261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	0640	15861	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	0650	14961	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
XPB1	16-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
XPB1	19-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)
XPB1	22-12	0600	19461	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	22-12	0610	19261	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	22-12	0620	18261	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	22-12	0630	16261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	22-12	0640	15861	Mon	Russian intel.	MFSK-16	(AB)
XPB1	22-12	0650	14961	Mon	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0600	19461	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0610	19261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0620	18261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0630	16261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0640	15861	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	0650	14961	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
XPB1	23-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1300	20044	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1310	19344	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1320	18544	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1330	17444	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1340	16244	Fri	Russian intel.	MFSK-16	(AB)
XPB1	26-12	1350	14944	Fri	Russian intel.	MFSK-16	(AB)

XPB1	29-12	0600	19461	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	29-12	0610	19261	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	29-12	0620	18261	Mon	Russian intel.	MFSK-16	(AB-POL)
XPB1	29-12	0630	16261	Mon	Russian intel.	MFSK-16	(AB)
XPB1	29-12	0640	15861	Mon	Russian intel.	MFSK-16	(AB)
XPB1	29-12	0650	14961	Mon	Russian intel.	MFSK-16	(AB)
XPB1	30-12	0600	19461	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	0610	19261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	0620	18261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	0630	16261	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	0640	15861	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	0650	14961	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1300	20044	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1310	19344	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1320	18544	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1330	17444	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1340	16244	Tue	Russian intel.	MFSK-16	(AB)
XPB1	30-12	1350	14944	Tue	Russian intel.	MFSK-16	(AB)

CONTRIBUTORS

AB	Ary Boender, Netherlands
AB-CYP	Ary Boender via remote rx Cyprus
AB-FIN	Ary Boender via remote rx Finland
AB-GRC	Ary Boender via remote rx Greece
AB-HNG	Ary Boender via remote rx Hungary
AB-J	Ary Boender via remote rx Japan
AB-POL	Ary Boender via remote rx Poland
AB-S	Ary Boender via remote rx Sweden
Brown	Brown, Italy
Dan	Daniel LU5EMM, Argentina
HFD	Hans-Friedrich Dumrese, Germany
HFD-J	Hans-Friedrich Dumrese via remote rx Japan
HFD-USA	Hans-Friedrich Dumrese via remote rx USA
JPL	JPL, NB, Canada (and various remote rx)
JU	Jay Updike
Lac	Lazycrypt
linkz	Linkz, S.E. France
Moon	Moonlight (Dave AU)
PY	Pierre Ynard, France and via remote rx
RO	Rando One, Sweden
Subilo	Subilo
TJ	Trond Jacobsen, Norway
TM	Time Machine

LIST OF ACTIVE STATIONS

Prefixes

E	English language	Q	4+4 QPSK mode
F	FSK (Frequency Shift Keying) modes	S	Slavic languages
G	German language	SK	Various modes used by Cuba, incl. (B)PSK, WinDRM
HM	Hybrid modes	UM(C)	Unid Morse station (Chinese)
M(C)	Morse code (Chinese)	V	Voice broadcasts in other languages
P	PSK modes. QPSK (Quadrature Phase Shift Keying) and BPSK (Binary Phase-Shift keying) modes	VC	Voice Chinese
		X	MFSK modes

Notes :

There is no solid proof that the mentioned operators are correct.

Russian G06, V06 and other variants are not in the list but are occasionally used for exercises

Code	Description	Country	Counterpart	Operator
E06	3-fig id, OM/EE 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06a	3-fig id, 2 group commencing with 11111	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E06b	3-fig id with 5FG group in call, 2 msgs	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
E07	3-fig id, OM/EE 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
E07a	Null msg format. Nnn nnn nnn 000 repeated 20 mins later	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
E11	nnn Oblique 00 Out	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E11a	E11 with message	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
E25	Arabic music, 3FGs call, 4FGs, 9450 kHz	EGY	E25, E25a, E25b	GID
E25a	E25 but 3FG 3FG 2FG 2FG 2FG call	EGY	E25, E25a, E25b	GID
E25b	Arab message; callup in English	EGY	E25, E25a, E25b	GID
F01	FSK/ITA2 200Bd/500Hz	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F02	MFSK-4 150Bd/4000Hz (12kHz BW)	RUS		Unid Russian net.
F03i	FSK-2 100Bd/800Hz/cf +1200Hz/488-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03j	FSK-4 100Bd/400Hz/cf +1200Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F03l	FSK-2 100Bd/200Hz/cf +700Hz/448-bit period	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
F06	FSK 200Bd/1000Hz ACF=288 sending compressed digits	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F06a	FSK 200Bd/1000Hz ACF=288 sending uncompressed ASCII files	RUS	E06, S06, M14, F01, F06, F06a	Russian Diplo/Intel.
F07	5x16-tone MFSK, 10Bd, 20Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
HM01	Consists of alternating WinDRM data & V02a repeating sequences.	CUB		DGI
M01	2 tone hand-keyed, ends '000'	RUS		Russian Navy
M01a	End of the month transmission	RUS		Russian Navy
M12	5FG, 3 or 4FG DK. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
M12a	3FG DK. 2 Messages. Ends with 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
M14	Ends 00000 or 5 long dashes	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14a	Dual msg variant	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14b	Rare, added 2nd msg hand keyed	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14c	Rare, dual msg, consecutive id's	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
M14d	3FG id with 5FG group in call	RUS	E06, S06, M14, F01, F06, F06a	
M21	14 fig msgs. Markers and tracking data	RUS	M21, M41	Russian Air Defense
M22	4XZ	ISR		Israeli Navy
M23	Letters and/or figures strings in various formats	F		
M41	M21 variant using callsigns and WZD and ABV	RUS	M21, M41	Russian Air Defense
M42	Various modes	RUS		Russian Gov/Intel.
M42b	FSK 50/500 (=50= separator)	RUS		Russian Gov/Intel.
M51a	FAV22 transmissions	F		French army
M51b	Non-stop 5-character groups	F		French army
M76	ABCD de EFGH QTC xx xx = 5FG 3607X RRRRR 201XX NNN			
M89	Markers like V YHXD YHXD YHXD DE SAQC SAQC and 4FG messages. Cut numbers	CHN		Chinese military
M89v	M89 voice transmissions	CHN		Chinese military

M95	Markers and 4FG messages. Cut numbers. Morse counterpart of V26 and Q26	CHN	M95, Q26, V26	Chinese military
MC03	Tracking data. Various formats	CHN	VC01	Chinese Air Defense
MVC03	Morse counterpart of VC03	CHN	VC03	Chinese Air Defense
MX	Single letter beacons/markers	RUS		Russian military
P03e	QPSK 100Bd/488-bit period	POL	E11, E11a, S11a, F03, P03	
P03f	QPSK 200Bd/496-bit period	POL	E11, E11a, S11a, F03, P03	
P03g	BPSK 50Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P03h	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03i	BPSK 100Bd/512-bit period	POL	E11, E11a, S11a, F03, P03	
P03j	QPSK 100Bd/504-bit period	POL	E11, E11a, S11a, F03, P03	
P03k	BPSK 100Bd/480-bit period	POL	E11, E11a, S11a, F03, P03	
P03l	QPSK 100Bd/464-bit period	POL	E11, E11a, S11a, F03, P03	
P07	Russian intel. 8-tone OFDM, QSPK, 62.5Bd, 125Hz + BPSK, 250Bd bursts	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
Q26	Digital counterpart of V26 and M95. Mode: 4+4 QPSK 75/3000 LSB and 4+4 QPSK 75/1000 LSB	CHN	M95, Q26, V26	Chinese military
S06	3-fig id, 00000 OM/RR	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06b	3-fig id, two group (commencing with 11111, stutter)	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06c	Repeating single group	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06e	3-fig id, two messages	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06f	3 group msg, ends 00000	RUS	E06, S06, M14, F01, F06, F06a	Russian intelligence
S06s	YL + slow zero's ending	UKR	E06, S06, M14, F01, F06, F06a	SZRU
S11a	nnn Cherta 00 or group count + message. Konets	POL	E11, E11a, S11a, F03, P03	Agencja Wywiadu
S28	Buzzer	RUS		Russian military
S30	Pip	RUS		Russian military
S32	Squeaky Wheel	RUS		Russian military
UM03	X2M (probably Chinese). Mode: CW			
UM04	PROMRCh. Daily transmissions. Format: VVVVV PROM-RCh = 27 09 = 1000 0600 0640 0780 1160 ... ABV repeat message = AR. Origin: Bulgaria	BUL		Bulgarian military
UM05	French morse training station	F		
UM06	Various formats morse strings	F		
UM10	10-minutes net. Callsigns sent for 10 minutes 2x per hour on 2 parallel frequencies. Seldom messages are sent.			
V07	Spanish Man 000 000	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1	Russian intelligence
V07F	French version of E07	RUS	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence
V13	New Star Broadcasting	TWN	V13, V13a, V13b	Military Intelligence
V13a	New Star Broadcasting (AM, 5-7 msgs to 5-7 units)	TWN	V13, V13a, V13b	Military Intelligence
V13b	New Star Broadcasting (AM/USB hybrid, intro 2x, 4 msgs to 4 units)	TWN	V13, V13a, V13b	Military Intelligence
V26	Voice counterpart of M95 and Q26	CHN	M95, Q26, V26	Chinese miliary
VC01	Chinese Robot (tracking data)	CHN	MC03	Chinese Air Defense
VC02	Chinese voice morse stations	CHN		Chinese Air Defense
VC03	3FG callup and 4FG messages			
VC05	Chinese time stamp station. Operator calling a 4-figure callsign for four minutes. At the end the actual Beijing time is mentioned.	CHN		
VR01	Russian station passing coded messages. Active sinds at least March 2014. Seldom heard	RUS		
X06	MFA Moscow. Selcal system for diplomatic missions	RUS		Various
XPA1	MFSK-20/10Bd transmissions	RUS		Russian intelligence
XPA2	MFSK-16/20Bd transmissions	RUS		Russian intelligence
XPB1	MFSK-16 transmissions	RUS		Russian intel
XSL	QPSK 1500Bd. Slot Machine (Japanese Navy Telemetry)	J		Japanese navy
X--	21-tone MFSK with 125 Hz tone spacing + 13-tone MFSK with 250 Hz spacing	RUA	E07, V07, V07F, M12, F07, P07, XPA1, XPA2, XPB1, X--	Russian intelligence

APPENDIX

Morse characters

A	. -	1	. - - - -	Full stop (period)	[.]	. - . - . -
B	- . . .	2	. . - - -	Comma	[,]	- . . . - -
C	- . . .	3	. . . - -	Colon	[:]	- - - . . .
D	- . .	4	 -	Question mark	[?]	. . - - . .
E	.	5		Exclamation mark	[!]	- . . . - -
F	. . - .	6	-	Apostrophe	[']	. - - - - .
G	- - .	7	- - . . .	Dash or Hyphen	[-]	- -
H		8	- - - . .	Slash	[/]	- . . - .
I	. .	9	- - - - .	Left-hand bracket	[(]	- . - - .
J	. - - -	0	- - - - -	Right-hand bracket	[)]	- . - - . -
K	- . -			Quotation marks	[" "]	. - . . .
L	. - . .			Equals sign	[BT =]	- . . . -
M	- -	Accented letters		Understood		. . . - .
N	- .			Plus sign	[+]	. - . - .
O	- - -			Invitation to transmit		- . -
P	. - - .			Wait	[AS]	. - . . .
Q	- - . -			End of Transmission	[SK, VA]	. . . - . -
R	. - .	Ö		End of message	[AR]	. - . - .
S	. . .			Starting signal		- . . . -
T	-			Multiplication sign	[×]	- . . -
U	. . -			At sign	[@]	. - - . - .
V	. . . -			Break	[BK]	- . . . - . -
W	. - -			Ampersand	[&]	. - . . .
X	- . . -					
Y	- . - -					
Z	- - . .					

For Cyrillic morse etc., see also

<http://udxf.nl/Morse-document.pdf>

<http://udxf.nl/Russian.pdf>

Chinese cut numbers
(M89, M95, MC03, etc)

A	U	3	4	5	6	7	D	N	T
1	2	3	4	5	6	7	8	9	0

M08a cut numbers

A	N	D	U	W	R	I	G	M	T
1	2	3	4	5	6	7	8	9	0

Q26 conversion

F	J	B	P	G	U	Y	M	C	W
0	1	2	3	4	5	6	7	8	9

3rd shift Cyrillic RTTY as used by M42b

Q	W	E	R	T	Y	U	I	O	P	(	K	V	Z
1	2	3	4	5	6	7	8	9	0	K	=	-	+

Word	E11a	S11a	M03
Attention	Attention	Vnimanye	
Slash /	Oblique	Cirta	- . . - .
Out	Out	Konets	

Figure	English	French	German	Mandarin	Spanish	Russian	Arabic
0	Zero	Zero	Null	Ling	Cero	Null	Sifr
1	One	Un	Eins	Yi	Uno	Odín	Wahid
2	Two	Deux	Zwei	Er	Dos	Dva	Itnien
3	Three	Trois	Drei	San	Tres	Tri	Talata
4	Four	Quatre	Vier	Si	Cuatro	Chety're	Arba`a
5	Five	Cinq	Fünf	Wu	Cinco	Pyat'	Xamsa
6	Six	Six	Sechs	Liu	Seis	Shest'	Sitta
7	Seven	Sept	Sieben	Qi	Siete	Sem'	Sab`a
8	Eight	Huit	Acht	Ba	Ocho	Vósem'	Tamanya
9	Nine	Neuf	Neun	Jiu	Nueve	Dévyat'	Tiss`a

Figure	Morse	Vietnamese	E17z	S11a	G06	E11
0	— — — — —	Số không	Zero	nul	Null	Zero
1	. — — — —	Một	Van	adinka	Eins	One
2	. . — — —	Hai	To	dvoyka	Twso	Two
3	. . . — —	Ba	Fwee	troyka	Drei	Three
4	 —	Bồ'n	Fo	chetvyorka	Vier	Four
5		Năm	Fav	petyorka	Funuf	Fiver
6	—	Sáu	Six	shest	Sechs	Six
7	— — . . .	Ba y	Seven	syem	Sieben	Seven
8	— — — . .	Tám	Eight	vosyem	Acht	Eight
9	— — — — .	Chín	Nine	dyevyet	Neugen	Niner
=	—					
/	—					

Note: E17z, M03 and M08a are defunct.

COLOPHON

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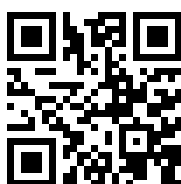
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721 75654 55656 12737 72727 72727 91918 63473 67867 70
423 87629 37677 32612 53498 71296 28756 18276 98716 87
7269 76329 74698 76857 98678 27681 56781 57681 73648 1
659 87364 87265 96718 77638 12673 84769 28743 98127 5
8 63298 75698 27465 87326 49876 28376 81273 98615 86
67 87432 74328 78674 29867 32867 67867 86786 43266 408
57 68768 68763 34234 34238 68768 62342 48273 48768 238
936 98432 32432 86743 43286 43286 43286 43286 43286 432
743 86743 86743 39867 32867 86743 43286 43286 43243 86
743 86743 86743 86743 86743 86743 86743 86743 86743 43
543 98798 98754 98754 98754 98754 29867 67543 67986 86
76 87698 69876 87698 69876 87612 12341 34867 86798 682
867 43298 65656 56756 56123 32143 14321 32143 14321 321
867 82787 58765 76587 58765 76587 58765 76587 58756 765
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